

ANNUAL REPORT OF THE
COMMISSIONERS OF THE
DISTRICT OF COLUMBIA
YEAR ENDED JUNE 30, 1919

Vol. III
REPORT OF
THE HEALTH OFFICER

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YEAR ENDED JUNE 30, 1919

Vol. III
REPORT OF
THE HEALTH OFFICER



WASHINGTON
1919



OFFICERS AND EMPLOYES OF THE HEALTH DEPARTMENT.

July 1, 1919.

Health officer.

WILLIAM C. FOWLER, M. D.

Assistant health officer.

JOHN L. NORRIS, M. D.

Chief clerk and deputy health officer.

ARTHUR G. COLE.

Clerks.

S. PHILLIPS.

E. LUCAS.

J. C. MADDOX, Jr.

W. O. ROOME, Jr.

H. L. KING.

T. W. PARSONS.

L. H. CROWE.

M. LUCILLE GARDINER.

W. M. SMITH.

L. B. FOSTER.

JOSEPH GOLDSTEIN.

HELEN W. MICKLE.

ANNA V. WOODWARD.

Chief bureau of vital statistics.

A. C. PATTERSON, M. D.

Chief sanitary inspector.

C. R. HOLMAN.

Assistant chief sanitary inspector.

J. F. BUTTS.

Chief food inspector.

R. R. ASHWORTH, D. V. S.

Assistant chief food inspector.

W. W. BURDETTE, S. E.

Serologist.

W. F. LANDON, B. S.

Bacteriologist.

L. V. DIETER, Phar. D.

Assistant bacteriologists.

MARTIN E. COYLE.

RAYMOND RANDALL, D. V. M.

Chemist.

M. A. POZEN, Phar. D., B. S.

Assistant chemist.

MOSES STARBECKER, B. S.

Laboratory assistants.

LOUISE T. STURGIS.
E. F. GRIMMELSMAN.

MARGARET M. SHEEDY.
RUTH DYER.

REPORT OF THE HEALTH OFFICER.

Sanitary inspectors.

JOHN KISSELEFF.
C. H. BUCHANAN.
W. R. SMITH.
I. M. WRIGHT.
J. S. DUGAN.

C. H. WELCH.
E. W. WHITAKER.
T. B. CARROLL.
J. M. HEINBUCH.
F. X. DOWD.

D. C. MALCOLM.
E. J. CROSS.
J. B. CARROLL.
J. I. LASALLE.

Food inspectors.

H. S. DRAKE, V. S.
J. R. GRIME, D. V. S.
JOHN ROME, D. V. S.
W. L. FOWLER.
S. L. GELSTON, D. V. S.
M. A. SULLIVAN.

W. B. DODGE.
H. J. MULLIGAN.
R. A. GUERRANT.
GEORGE GOTTHARDT.
J. C. MORRIS.
W. H. H. HOOVER.

H. V. NEALE, D. V. M.
C. E. BIRD.
H. J. WITTIG, D. V. S.
J. B. MCCLELLAN, D. V. S.
JOHN H. OFENSTEIN.
T. V. WARD, D. V. S.

Eight-hour female labor.

PERCY TALLEY.
M. L. SIMPSON.

CAROLINE S. DAVIS.
JOHN J. KING, clerk.

Pound service.

G. W. RAE, poundmaster.

Laborers.

GEORGE TINNEY.
J. BURRILL.
WM. STEWART.

W. H. MATTHEWS.
A. R. FIELD, watchman.

Messengers.

SINGLETON ANDERSON.

F. S. HOLMES.

Contagious-disease service.

J. PAUL FREY, M. D., chief bureau of preventable diseases and director of bacteriological laboratory.
R. S. BEALE, M. D., medical inspector.
JOHN E. WALSH, M. D., medical inspector.
FRANK ABBOTT, M. D., medical inspector.

D. T. BIRTWELL, M. D., medical inspector.
J. D. BRADFIELD, M. D., medical inspector.
E. M. ELLISON, M. D., medical inspector.

Inspector-nurses.

EVA E. MELLING.

KATHERINE DOUGLASS.

Clerks.

THELMA G. SCOTT.

PAULINE A. CARTER.

Skilled laborers.

EDWARD NEWMAN.

NATHANIEL CARTER.

Stableman.

ARTHUR HUDSON.

Disinfecting service.

C. M. BEALL, M. D., inspector.

W. D. TAPSCOTT, disinfectior.
B. PRICE, disinfectior.

Crematorium.

ERNEST BISHOP, superintendent.

Chaufeurs.

F. A. BYRD.

SYLVESTER WOODFORK.

DISPENSARY.

Venereal disease clinic.

WILLIAM G. YOUNG, M. D., director.

Attending physicians.

ADAM KEMBLE, M. D.

KATE B. KARPELES, M. D.

ALBERT W. EVANS, M. D.

Nurse.

LEDO E. CUMMINGS.

Tuberculosis clinic.

W. D. TEWKSBURY, M. D., director.

Attending physicians.

E. M. ELLISON, M. D.

H. C. DREW, M. D.

EUGENE A. TAYLOR, M. D., laryngologist. W. H. MERRILL, M. D., roentgenologist.

Nurses.

E. J. MCINTOSH.

ANNA THOMAS.

ALPHA B. JONES.

Caretakers.

JOHN L. MAHONEY.

RUTH C. MAHONEY.

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REPORT OF THE HEALTH OFFICER.

HEALTH DEPARTMENT,
Washington, September 13, 1919.

GENTLEMEN: I have the honor to submit the following report for the fiscal year ended June 30, 1919.

PART I.

PUBLIC HEALTH IN THE DISTRICT OF COLUMBIA DURING THE CALENDAR YEAR 1918, WITH A SUPPLEMENTARY STATEMENT RELATING TO THE FIRST SIX MONTHS OF THE CALENDAR YEAR 1919.

Detailed statistics of births, stillbirths, deaths, and cases of reportable diseases are set forth in the appendix, to which reference must be made for information not found in the body of this report.

POPULATION.

The last police census was taken during the calendar year 1917 and gave the total population as 395,947, of which 293,329 were white and 102,618 colored. Since the taking of this census the population has greatly increased, and at the close of the calendar year 1918 a conservative estimate placed it at 417,405. The birth rates, stillbirth rates, death rates, and morbidity rates for the calendar year 1918 are based on this estimated population.

GENERAL BIRTH RATES AND DEATH RATES.

The total number of births, stillbirths, and deaths recorded during the calendar year 1918, with corresponding birth rates, stillbirth rates, death rates, and similar data for previous years for purposes of comparison, will be found in the following table.

Population, births, stillbirths, and deaths in the District of Columbia, with corresponding rates during the calendar years 1901-1918, inclusive.

Calendar year.	Population.	Births.	Stillbirths.	Deaths.	Rate per 1,000.		
					Births.	Stillbirths.	Deaths.
1901-1905 ¹	311,325	5,409	570	6,042	17.38	1.83	19.41
1906-1910 ¹	336,940	6,900	577	6,304	20.48	1.71	18.71
1911-1915 ¹	353,443	7,028	478	6,188	19.88	1.35	17.50
1916.....	359,997	7,258	417	6,494	20.16	1.15	18.04
1917.....	395,947	7,519	424	6,687	18.99	1.07	16.89
1918.....	417,405	8,221	512	9,582	19.69	1.23	22.95

¹ Average for 5-year period.

Births.—An analysis of registered live births and stillbirths according to race will be found in the following table:

Nativity in the District of Columbia, by years and by race, during the calendar years 1906-1918, inclusive.

Calendar year.	Births and stillbirths registered.				Rate per 1,000 of corresponding population.		
	White.	Colored.	Un-known.	Total.	White.	Colored.	Total.
1906-1910 ¹	4,832	2,583	62	7,427	20.1	26.7	22.2
1911-1915 ¹	4,962	2,483	61	7,506	19.5	25.3	21.0
1916.....	5,213	2,408	54	7,675	20.0	24.3	21.3
1917.....	5,491	2,412	40	7,943	18.7	23.5	20.1
1918.....	6,305	2,393	35	8,733	20.2	22.9	20.9

¹ Average for 5-year period.

Live births.—During the year 8,221 live births were reported, equivalent to a birth rate of 19.69. These figures show a slight increase over the previous year, when the rate was 18.99.

For comparison with figures for previous years see table on page 10. Among the white population 6,063 live births were recorded, furnishing a live birth rate of 19.38, and among the colored 2,158, a live birth rate of 20.63.

Stillbirths.—The following table shows the frequency of stillbirths, according to race:

Stillbirths in the District of Columbia; relative frequency of, with reference to race, during the calendar year, 1906-1918, inclusive.

Calendar year.	Registered stillbirths.				Rate per 1,000.		
	White.	Colored.	Unknown.	Total.	White.	Colored.	Total.
1906-1910 ¹	200	315	62	577	0.8	3.2	1.7
1911-1915 ¹	168	250	61	478	.7	2.5	1.3
1916.....	171	192	54	417	.7	1.9	1.2
1917.....	200	184	40	424	.7	1.8	1.1
1918.....	242	235	35	512	.8	2.2	1.2

¹ Average for 5-year period.

Percentage of stillbirths of each class named below computed upon the basis of all live and still births together for each class.

Calendar year.	By race.			Social status.	
	White.	Colored.	Total.	Legitimate.	Illegitimate.
1906-1910 ¹	4.1	12.2	7.7	5.6	14.9
1911-1915 ¹	3.4	10.0	6.4	4.8	12.6
1916.....	3.3	8.0	5.4	4.1	13.4
1917.....	3.6	7.6	5.3	5.0	9.5
1918.....	3.8	9.8	5.9	4.9	13.5

¹ Average for 5-year period.

White children to the number of 3,295 were born in institutions, of which 4.3 per cent were born dead. Of 3,010 white children born in homes, 3.4 per cent were stillborn. Among the colored population 869 births occurred in institutions with 10.9 per cent born dead, while of the 1,524 children born in homes 9.1 were stillborn.

Stillbirths in the District of Columbia; relative frequency of in home and hospital practice, during the calendar year 1918.

Place of birth.	White.			Colored.			Total.			
	Live-births.	Still-births.	Per-centage of still-births to live-births and still-births.	Live-births.	Still-births.	Per-centage of still-births to live-births and still-births.	Live-births.	Still-births.	Per-centage of still-births to live-births and still-births.	Still-births, un-known race.
Institutions.....	3,154	141	4.3	774	95	10.9	3,928	236	5.7	.....
Homes.....	2,999	101	3.4	1,384	140	9.1	4,293	241	6.0	.....
Total.....	6,063	242	3.8	2,158	235	9.8	8,221	477	5.8	35

¹ Unknown race reported by coroner; presumably "home births."

The following table shows that the percentage of stillbirths occurring in hospitals under the care of physicians was about the same as among those born in homes.

Stillbirths in the District of Columbia, according to professional attendance, relative frequency of, in home and hospital practice during calendar year 1918.

Attended by—	Confined at home.		Confined at hospital.		Percentage of stillbirths to livebirths and stillbirths.		
	Live-births.	Still-births.	Live-births.	Still-births.	Homes.	Hos-pitals.	Homes and hospitals.
Physicians.....	3,830	235	3,928	236	5.8	5.7	5.7
Midwives.....	463	6	.....	.....	1.3	.....	.....
Unknown.....	.....	35	.....	.....	.....	.....	.....
Total.....	4,293	276	3,928	236	6.0	5.7	5.8

Illegitimacy.—The percentage of births and stillbirths reported as illegitimate during the calendar year is slightly less than the previous year, as is shown in the following table:

Illegitimacy in the District of Columbia, prevalence of, by years and by race, during the calendar years 1906–1918, inclusive.

Calendar year.	Illegitimate births and still-births registered.				Rates per 1,000 corre-sponding population.			Percentage of all births and stillbirths re-ported as illegitimate.		
	White.	Col-ored.	Un-known.	Total.	White.	Col-ored.	Total.	White.	Col-ored.	Total.
1906–1910 ¹	110	572	.....	682	0.5	5.9	2.0	2.3	22.1	9.2
1911–1915 ¹	111	541	67	719	.4	5.5	2.1	2.2	21.7	9.6
1916.....	89	466	55	610	.3	4.7	1.7	1.7	19.3	7.3
1917.....	122	475	40	637	.4	4.6	1.5	2.2	19.7	7.5
1918.....	93	403	36	532	.3	3.9	1.2	1.5	16.8	5.6

¹ Average for 5-year period.

The following table shows the distribution of illegitimate births according to ages of mothers of children born:

Illegitimacy in the District of Columbia: Ages of mothers of illegitimate children whose births and stillbirths were recorded during the calendar years 1911-1918, inclusive.

Calendar year.	Age of mothers.										21 and over.	Age not stated.	Total.
	12	13	14	15	16	17	18	19	20	Total under 21.			
1911.....		3	4	17	33	49	54	51	46	257	204	182	643
1912.....		1	7	19	52	77	90	76	57	379	225	170	774
1913.....	1	1	4	29	55	80	98	82	62	412	275	6	693
1914.....		1	8	15	53	67	106	62	49	361	215	29	605
1915.....		1	7	18	51	80	84	66	60	367	233	14	614
1916.....		1	9	18	50	64	72	81	43	338	200	17	555
1917.....			8	25	39	78	93	62	62	367	213	17	597
1918.....		1	7	20	39	49	42	58	41	257	148	24	429

Births in institutions and under the care of midwives.—The tendency to resort to hospitals in cases of confinement, and the decreased employment of midwives, continues as commented on in previous reports, as is shown in the following table:

Midwives and lying-in hospitals in the District of Columbia: Live births reported by midwives and from institutions during the calendar years 1906-1918, inclusive.

Calendar year.	Number reported.			Percentage reported.	
	Total.	From institutions.	By midwives.	From institutions.	By midwives.
1906-1910 ¹	6,900	1,286	1,295	18.6	18.8
1911-1915 ¹	7,028	1,908	828	28.4	11.8
1916.....	7,258	2,600	558	37.1	7.7
1917.....	7,519	3,317	508	44.1	6.8
1918.....	8,221	3,928	463	47.8	5.6

¹ Average for 5-year period.

STATISTICS OF ILLNESS AND DEATHS.

General mortality.—The total number of deaths occurring during the calendar year 1918 was 9,582, as compared with 6,687 for the preceding year. The death rate increased from 16.89 to 22.95. The figures show that 2,895 more deaths occurred in 1918 than during the preceding year. This remarkable increase was due to the epidemic of influenza which prevailed throughout the entire country during the latter part of the calendar year. Influenza was responsible for 2,028 deaths of the deaths recorded and pneumonia 1,298 deaths. It is believed that the deaths from pneumonia were largely the result of the influenza.

Racial population, deaths, and death rates in the District of Columbia, by calendar years, from 1901 to 1918, inclusive.

Years.	Population.		Deaths.		Death rates.	
	White.	Colored.	White.	Colored.	White.	Colored.
1901-1905 ¹	217,606	93,719	3,395	2,647	15.60	28.20
1906-1910 ¹	240,244	96,696	3,626	2,678	15.09	27.69
1911-1915 ¹	255,162	98,281	3,665	2,523	14.36	25.67
1916.....	260,854	99,143	3,953	2,541	15.15	25.63
1917.....	293,329	102,618	4,070	2,617	13.88	25.50
1918.....	312,806	104,599	6,262	3,320	20.02	31.74

¹ Average for 5-year period.

Mortality by age periods.—During the year 111 deaths occurred in the first year of life to each 1,000 reported births, while in the preceding year 97 deaths under 1 year of age for each 1,000 births were recorded. The death rate of white infants was 84 per 1,000, while that of the colored infants was 187. Detailed statement will be found on page 98.

Deaths from the more important diseases.—The following table shows the most potent causes of death during the calendar year 1918, arranged in order of the gravity of their influence on death rates, with corresponding figures for previous years. For detailed information with respect to those diseases and with respect to all causes of death, see table printed in the appendix.

Most potent causes of deaths in the District of Columbia during the calendar years 1915, 1916, 1917, and 1918, arranged in order of relative influence on the death rate in the latest year, and the annual averages for the 5-year periods 1906-1910 and 1911-1915.

Diseases.	Deaths.					
	Annual average, 1906-1910.	Annual average, 1911-1915.	1915	1916	1917	1918
Grippe (influenza).....	96	71	114	112	106	2,028
Pneumonia (all forms).....	554	547	671	604	636	1,298
Organic heart disease.....	509	738	731	716	777	809
Pulmonary tuberculosis.....	749	687	698	646	594	647
Bright's disease.....	442	545	613	588	639	624
Apoplexy.....	327	413	457	463	490	539
Malignant growths.....	276	339	392	387	420	418
Prematurity.....	215	204	204	181	208	258
Diarrhea (under 2 years).....	305	192	167	175	227	205
Arteriosclerosis.....	84	120	154	179	144	195
Endocarditis and myocarditis.....	72	57	122	146	158	183
Senility.....	200	156	113	121	126	93
Bronchitis.....	128	93	87	77	59	92
Diarrhea (2 years and over).....	72	63	58	64	68	84
General paralysis of insane.....	33	53	67	71	80	80
Nephritis, acute.....	59	68	77	75	77	79
Diabetes.....	41	58	72	68	65	66
Marasmus (under 1 year).....	62	82	68	78	34	51
Typhoid fever.....	119	59	42	46	49	48
Whooping cough.....	38	29	19	41	18	43

Most potent causes of deaths in the District of Columbia during the calendar years 1915, 1916, 1917, and 1918, etc.—Continued.

Diseases.	Death rate per 100,000.					
	Annual average, 1906-1910.	Annual average, 1911-1915.	1915	1916	1917	1918
Grippe (influenza).....	28	20	32	31	27	486
Pneumonia (all forms).....	163	155	188	168	161	229
Organic heart disease.....	169	208	204	199	196	194
Pulmonary tuberculosis.....	222	194	195	179	150	155
Bright's disease.....	131	154	171	163	161	150
Apoplexy.....	97	117	129	129	124	129
Malignant growths.....	82	96	110	108	106	100
Prematurity.....	64	58	57	50	53	62
Diarrhea (under 2 years).....	91	54	47	49	57	49
Arteriosclerosis.....	25	34	43	50	36	47
Endocarditis and myocarditis.....	21	16	34	41	40	44
Senility.....	59	44	32	34	32	22
Bronchitis.....	38	26	24	21	15	22
Diarrhea (2 years and over).....	21	18	16	18	17	20
General paralysis of insane.....	10	15	19	20	19	19
Nephritis, acute.....	18	19	22	20	19	19
Diabetes.....	12	16	20	19	16	16
Marasmus (under 1 year).....	18	23	19	22	9	12
Typhoid fever.....	35	17	12	13	12	11
Whooping cough.....	11	8	5	11	5	10

Reportable diseases.—In the following table figures are given showing the prevalence of the several reportable diseases in the District of Columbia during the calendar year 1918, with figures for comparison with the preceding year:

Reportable diseases in the District of Columbia: Cases, case rates, deaths, percentage of fatalities, and death rates during the calendar years 1916, 1917, and 1918.

Diseases.	Cases.			Case rate per 100,000.			Deaths.		
	1916	1917	1918	1916	1917	1918	1916	1917	1918
Anterior poliomyelitis.....	39	6	2	11	2	5	6	2	0
Chicken pox.....	1,139	1,250	728	316	315	174	0	0	0
Diphtheria.....	647	1,130	517	180	285	124	33	37	39
Epidemic cerebrospinal meningitis.....	6	33	118	2	8	28	4	17	28
Measles.....	2,642	3,807	6,999	734	945	1,677	6	14	48
Pellagra.....	16	19	14	5	5	3	9	14	19
Scarlet fever.....	530	584	883	147	147	212	6	8	16
Smallpox.....	4	11	48	1	3	12	.....	.....	.....
Tuberculosis (communicable).....	1,061	1,006	1,140	295	220	273	694	633	690
Typhoid fever.....	308	338	217	86	85	72	46	49	48
Whooping cough.....	2,224	1,013	1,749	618	225	419	41	18	43

Diseases.	Percentage of deaths to cases.			Death rate per 100,000.		
	1916	1917	1918	1916	1917	1918
Anterior poliomyelitis.....	15.4	34.0	.....	1.6	0.5	.....
Chicken pox.....	.....	.....	.....	.....	.....	.....
Diphtheria.....	5.1	3.2	7.5	9.2	9.0	9.3
Epidemic cerebrospinal meningitis.....	66.6	51.5	23.7	1.1	4.4	6.7
Measles.....	2	.....	7	1.7	3.5	11.5
Pellagra.....	56.3	73.0	64.3	2.5	3.5	2.1
Scarlet fever.....	1.1	1.3	1.8	1.6	2.0	3.8
Smallpox.....	.....	.....	.....	.....	.....	.....
Tuberculosis (communicable).....	65.4	63.0	60.5	19.3	15.9	165.3
Typhoid fever.....	14.9	14.0	22.1	12.7	12.0	11.5
Whooping cough.....	1.8	1.7	2.5	11.4	4.5	10.3

Deaths in the District workhouse, Occoquan, Va.—Five deaths occurred at the District workhouse, Occoquan, Va., during the year 1918. Causes: Bright's disease, 1; pneumonia, 2; tuberculosis, 1; influenza, 1.

VITAL STATISTICS—JANUARY TO JUNE, INCLUSIVE, 1919.

A statement showing cases of reportable diseases and reported deaths during the first half of the calendar year 1919 will be found on page 100.

DISPOSAL OF THE DEAD.

The following table shows the ultimate disposal of the dead in the District of Columbia during the year ending December 31, 1918:

Disposal of dead bodies, exclusive of stillborn infants, coming under the supervision of the health department during the calendar year 1918.

	Died in the District of Columbia.	Died outside of the District of Columbia; brought in for disposal.	Total.
Sent out of the District for disposal:			
To Arlington National Cemetery.....	400	98	498
To other places.....	2,381	84	2,465
Total.....	2,781	182	2,963
Cremated:			
Lee's crematory.....	63	16	79
District crematory.....	258	17	275
Total.....	321	33	354
Buried in the District of Columbia.....	6,360	750	7,110
Anatomical board.....	120		120
Total.....	6,480	750	7,230
Total disposed of.....	9,582	965	10,547

Cremation.—The following table shows the progress of cremation in the District of Columbia since the year 1900:

Progress of cremation in the District of Columbia, calendar years 1901–1918, inclusive.

Calendar year.	Bodies cremated. ¹				
	Total deaths.	Lee's crematory.	District of Columbia crematory.	Total.	Percentage of cremations.
1901.....	6,059	27	.....	27	0.45
1902.....	5,788	21	.....	21	.36
1903.....	5,944	41	.....	41	.69
1904.....	6,221	20	.....	20	.32
1905.....	6,205	43	.....	43	.69
1906.....	6,316	41	.....	41	.65
1907.....	6,343	50	.....	50	.79
1908.....	6,136	54	* 45	99	1.61
1909.....	6,216	50	316	366	5.88
1910.....	6,511	48	334	382	5.87
1911.....	6,303	52	319	371	5.89
1912.....	6,259	52	323	375	5.99
1913.....	6,005	57	295	352	5.86
1914.....	5,866	59	230	289	4.93
1915.....	6,505	67	298	365	5.61
1916.....	6,494	53	272	325	5.00
1917.....	6,687	59	277	336	5.00
1918.....	9,582	79	275	354	3.69

¹ Stillbirths excluded.

* Began to operate October, 1908.

COMMUNICABLE DISEASES OF ANIMALS.

Rabies.—The following table shows the extent to which rabies prevailed in the District of Columbia during the calendar year 1918, together with corresponding figures for the preceding year:

Rabies in the District of Columbia during the calendar year 1918, together with corresponding data for the preceding year.

	Calendar year.	
	1917	1918
Dogs reported to the health department as rabid or suspected of being rabid.....	25	46
Other animals reported as rabid or suspected of being rabid.....	2	2
Instances in which diagnosis of rabies was confirmed by post-mortem findings of the Bureau of Animal Industry.....	2	24
Persons bitten by dogs or cats rabid or suspected of being rabid.....	26	38
Domestic animals bitten by dogs, rabid or suspected of being rabid (1917, 3 dogs, 1 cat; 1918, 11 dogs, 2 cats, 2 pigs).....	4	16
Persons bitten by dogs and cats and other animals known to be rabid, as shown by post-mortem findings of the Bureau of Animal Industry.....	2	27
Pasteur treatment administered to individuals during the calendar year (reports received from the Hygienic Laboratory, Public Health Service).....	1 29	70

¹ This includes individuals from outside of the District of Columbia as follows: 1917, 15; 1918, 39.

In view of the continued prevalence of rabies in the District of Columbia the commissioners on July 2, 1918, renewed their proclamation of the previous years requiring the muzzling of all dogs running at large. This proclamation became effective July 9, 1918, and continued for a period of one year.

INFLUENZA.

The pandemic of influenza which swept over the world and caused untold suffering and distress made its first appearance in the District of Columbia about the middle of September, 1918. The first death reported from this disease was on September 21, 1918. At the time of its first appearance in this District there was no law or regulation requiring the report of cases of influenza to the health department, consequently the department was in possession of no data which would enable it intelligently to determine the extent to which the disease was prevailing. In view, however, of the widespread prevalence of the disease in other cities and with a view to ascertaining the actual condition in the District of Columbia, a request was made that physicians report all cases coming to their attention. While the request was complied with to some extent, the results obtained were far from satisfactory. On October 3, 1918, the disease now being widespread throughout the city, the public and private schools were ordered closed. This was followed a day or two later by an order of the commissioners ordering the closing of all churches, theaters, dance halls, and other like places. This order also prohibited meetings of fraternal organizations and all other public assemblages. Public funerals were prohibited. On October 3, 1918, the commissioners issued regulations requiring the report of all cases of epidemic influenza to the health department. At this time the people were panic-stricken and appeared willing to cooperate to any extent with the health authorities in the efforts being made to suppress the disease. In the early part of the epidemic the United States Public Health Service came to the aid of the local authorities

and rendered valuable assistance in the work and also established a temporary emergency hospital at 612 F Street NW. Relief stations were also established by the United States Public Health Service in several sections of the city from which points physicians and nurses were sent on emergency sick calls. The War and Navy Departments detailed a number of medical officers from their respective services to aid in the relief work, and had it not been for this assistance the sufferings of the people would have been greatly increased. The American Red Cross assumed responsibility for the corps of nurses acting in cooperation with the United States Public Health Service at the several relief stations mentioned. The Instructive Visiting Nurse Society of the District, the public-school nurses, and the nurses of the Washington Diet Kitchen Association, acting in cooperation with the Red Cross, rendered most valuable service.

In addition to the nursing service under the direction of the Red Cross, that organization arranged for the establishment of soup stations from which light nourishment was sent in emergency cases. It was soon found that the temporary hospital at 612 F Street NW. was entirely inadequate, and arrangements were made with the War Department for the use of a building at Eighteenth Street and Virginia Avenue NW., in which a hospital was established under the direction of the United States Public Health Service. The building used for the purpose was obtained from the War Department and was one of the temporary structures erected for the use of that department in connection with the war activities. The establishment of this temporary hospital provided for the care of hundreds of patients and relieved the general situation to a most marked degree. Every agency of the Federal Government as well as the local government was brought into action in an effort to relieve the distress and stamp out the disease. The epidemic reached its height about October 12, 1918, and a gradual decline in the number of cases reported began after that date and continued until about November 1, 1918, when it had practically subsided.

The restrictions placed on churches, schools, dance halls, and other public places and assemblages were removed by order of the commissioners on November 4, 1918.

A recrudescence occurred about December 1, 1918, but was not nearly so serious as the original outbreak. The recurrence continued until about February 1, 1919, and then subsided. About the middle of December, as a result of the recrudescence of the disease, a large number of persons were ill and unable to obtain hospital treatment. It was therefore decided to reopen the temporary hospital at 612 F Street NW. (the hospital at Eighteenth Street and Virginia Avenue NW. having been closed for some days). The hospital was reopened on December 19, 1918, under the supervision of the health department. The District finding itself without sufficient funds to operate the hospital it was arranged that the expense would be divided between the District government, the United States Public Health Service, the American Red Cross, and the Medical Department of the United States Army. This hospital was maintained under the direction of the health department until March 1, 1919, on which date it was closed.

During the time the hospital was open 223 patients were treated and 30 deaths occurred.

On December 14, 1918, the commissioners asked Congress for a special appropriation to fight the disease, and on February 25, 1919, an appropriation of \$30,000 was made. Only a very small amount of this appropriation was used, as the epidemic subsided shortly after the appropriation was made.

The total number of cases of influenza reported to the health department from October 1, 1918, to February 1, 1919, was 33,719, and the total number of deaths from that disease was 2,215. In addition to the number of deaths from influenza during this period, 680 deaths resulted from pneumonia, probably largely due also to influenza.

PART II.

ADMINISTRATION.

SUPERVISION.

The general methods of procedure heretofore in vogue in the health department have been carried out during the past year.

BUREAU OF PREVENTABLE DISEASES.

Contagious-disease service.—The amount and character of the work done in the contagious-disease service during the fiscal year 1919 is shown in the following table:

Reportable diseases in the District of Columbia: Cases reported during the fiscal year 1918-19.

Diseases.	Fiscal year—	
	1918	1919
Anterior poliomyelitis.....	6	2
Chicken pox.....	1,138	1,005
Diphtheria.....	1,112	826
Epidemic cerebrospinal meningitis.....	122	18
Erysipelas.....	1	1
Measles.....	7,618	296
Scarlet fever.....	21	10
Smallpox.....	1,102	536
Whooping cough.....	38	188
Tuberculosis.....	1,118	1,166
Typhoid fever.....	328	192
Scarlet fever.....	1,144	1,097
Influenza.....		34,665
Total.....	² 13,807	40,002

¹ Not reportable until Oct. 3, 1918.

² The totals in this table include for the year 1918, 1,151 cases, and 1919, 330 cases, reported from the various military cantonments located within the District of Columbia.

Smallpox hospital, quarantine station, and leper hospital.—The smallpox hospital cared for 176 patients during the fiscal year. The institution was in active operation on 247 days, the total number of patient days' service rendered being 2,034.

The average number of patients in the hospital each day during the period when the hospital was in active operation was 8.2.

The average stay in the hospital of each patient was 11.5 days. The quarantine station was in active operation during the fiscal year 1919 164 days, during which time it cared for 182 inmates, the total number of inmate days being 1,686.

While this institution was in active service the average number of inmates per day was 9.8. The average number of inmates per day calculated on the entire year was 4.1. The average stay of an inmate in the institution was 8.8 days.

The leper hospital was in active service every day from July 1, 1918, to September 16, 1918. The only inmate of this institution made his escape from quarantine on the date last mentioned, and since that time the hospital has remained closed.

Ambulance service.—The ambulance for patients suffering from minor contagious diseases transported during the fiscal year 1919 373 patients on 239 days. Patients suffering from smallpox were removed in the ambulance provided for that purpose or in some other vehicle, not in the ambulance for the transportation of patients suffering from minor contagious diseases.

Cost of the contagious-disease service.—A statement of the cost of the contagious-disease service will be found on page 78 et seq.

Isolation wards at Garfield Memorial and Providence Hospitals.—The service rendered by the isolating wards at these institutions during the fiscal year 1919 is shown in the following table:

Isolating wards, Garfield Memorial and Providence Hospitals: Service and expense during the fiscal year 1919.

Institution.	Pay patient days.	Free patient days.	Total patient days.	Total appropriated by the Government.	Paid by the District for the year.	Cost to the District per free patient per day.	Amount received from pay patients.
Garfield Memorial Hospital.....	2,008	3,332	5,340	\$10,000	\$6,652	\$2.00	\$7,857.02
Providence Hospital.....	2,357	1,245	3,602	6,500	5,784	4.64	(¹)

¹ No account of money received from pay patients was rendered by Providence Hospital.

For a statement showing the nature of the cases treated in the isolation wards named see page 44.

Disinfecting service.—Premises to the number of 1,896 were disinfected and 909 articles exposed to infection on such premises or in some other way were disinfected at the disinfecting station. The cost of maintaining the disinfecting service during the year was \$6,196.54.

For a more detailed statement of the work done by the disinfecting service and the cost of such service see pages 44 and 78.

Public crematorium.—During the fiscal year 1919, 579 bodies were cremated—137 adults, 169 infants, and 273 stillborn babies. The total cost of maintenance was \$1,904.43. In 82 cases bodies were cremated for persons who paid for such services, the fees from this source amounting to \$2,050. The amount received for private cremations was \$145.57 in excess of the total cost of maintenance.

For statement showing the progress of cremation in the District of Columbia since the year 1900 see page 15.

Bacteriological laboratory.—The total number of specimens examined in the bacteriological laboratory was 18,215. For statement showing the character of these specimens and the results of examination see table on page 60 of this report. The cost of maintaining the laboratory during the year was \$7,089.08.

Scrological laboratory.—During the fiscal year 1919 1,151 specimens were examined. For statement showing the character of these specimens and results of examination see table on page 60 of this report. The cost of maintaining the laboratory during the year was \$3,000.77.

Dispensaries.—Tuberculosis clinic: A clinic for the treatment of persons suffering from tuberculosis was opened for patients on September 10, 1918. The establishment of this clinic was provided for in the appropriation act of 1918. It is located at 409 Fifteenth Street NW., and is thoroughly equipped with the most modern appliances. The physicians in attendance are men recognized as specialists in diseases of the throat and chest. Since the opening of this clinic the service has grown steadily. The arrangement of the building and its general appearance is quite attractive and tends to encourage patients to return regularly for treatment. From the time the clinic was opened until June 30, 1919, 619 patients were treated. Eighty-one of these cases were in children of school age and gave a positive diagnosis for tuberculosis. Forty-six patients were referred from the clinic to the tuberculosis hospital for treatment. Among the total number of patients applying at the dispensary, 20 deaths occurred.

In connection with the operation of the clinic three graduate nurses are employed. In addition to assisting during the clinic hours they also devote a great portion of their time to instructive visits to homes of patients. During the year 5,826 visits were made to homes of patients. A very important part of the equipment of the clinic is the X-ray apparatus, which has been of great aid in making diagnoses, particularly in children. Chest cases to the number of 160 were examined in the laboratory during the year.

Venereal disease clinic: The establishment of this clinic was provided for in the appropriation act of 1918. Owing to the difficulty of securing necessary equipment on account of war conditions it was not possible to open the clinic until November 21, 1918. Physicians in attendance at this clinic were selected because of their special knowledge of venereal diseases and are men well and favorably known in the medical profession.

This clinic is also located in the building at 409 Fifteenth Street NW., and its equipment is modern in every respect and in appearance equally as attractive as the tuberculosis clinic. This service is growing very rapidly and it has been necessary in order to accommodate all who apply to have morning hours twice each week in addition to the regular afternoon and night service. From the time the clinic opened until June 30, 1919, the total attendance was 1,353, the total number of new patients being 561.

Wasserman examinations numbering 176 were made and 267 salvarsan injections were given. Of the total number of patients who applied 116 were found to have syphilis, 203 gonorrhea, 99 miscellaneous genito-urinary condition, and 143 were examined for

suspected venereal disease and found to be free from such disease. Literature relating to venereal disease is freely distributed and every effort made to have patients attend regularly and continue treatment until cured.

The total cost of equipment and operation of the two clinics for the fiscal year 1919 was \$12,946.59.

MEDICAL INSPECTION OF PUBLIC SCHOOLS.

A report covering the operation of the medical and dental inspection service, including the work done by the school nurse, will be printed, it is understood, in the report of the board of education.

Two schools, one for the white and one for the colored pupils, are still being maintained for the education of pupils suffering from communicable forms of tuberculosis. The attendance at the two schools was approximately 55 pupils, an increase in attendance over last year of about 55 per cent.

In the appropriation act of August 31, 1918, provision is made for the establishment of free dental clinics in the public schools and for the appointment of eight dental operators and four dental prophylactic operators to serve such clinic. Owing to war conditions it was not possible to secure the necessary equipment to supply these clinics, nor was it possible to obtain dental operators and dental prophylactic operators until late in the fiscal year. While this delay is to be regretted it was quite unavoidable. Four clinics have, however, now been established and will soon be in operation. The clinics are located in the following-named school buildings: Curtis, Grover Cleveland, Tyler, and Old M Street High School

BUREAU OF FOOD INSPECTION.

Inspections of perishable foodstuffs.—The following table shows the number and kinds of establishments in the District of Columbia producing and selling foodstuffs, exclusive of dairies and dairy farms, during the fiscal year 1919.

Food-producing and vending establishments in the District of Columbia, number and kind on register, fiscal years 1918 and 1919, with data relative thereto.

	Registered at beginning of year.	Registered during year.	Abandoned or duplicated.	Registered at close of year.	Inspection.		
					Total.	Average per annum per place.	Inspections per inspector per day worked.
Total:							
1918.....	6,073	650	3,831	2,892	49,698	13.53	20.30
1919.....	2,892	1,508	556	3,728	61,818	16.57	20.20
Commission houses:							
1918.....	72		2	70	15,643	223.47	8.52
1919.....	70			70	16,931	241.87	9.21
Groceries:							
1918.....	1,808	322	1,114	1,016	4,895	4.80	2.67
1919.....	1,016	403	252	1,167	5,336	4.57	2.17
Markets:							
1918.....	10			10	2,083	208.30	1.70
1919.....	10			10	2,465	246.50	2.01
Butchers:							
1918.....	507		48	459	16,395	35.71	26.75
1919.....	459	292	39	712	21,192	29.76	23.08
Bakeries:							
1918.....	68	15	7	76	483	6.35	.39
1919.....	76	12	2	86	531	6.17	.81
Confectioners:							
1918.....	501	90	160	431	348	.80	.27
1919.....	431	118	16	533	862	1.61	.47
Restaurants:							
1918.....	513	590	612	491	8,243	16.79	13.49
1919.....	491	433	226	698	10,554	15.12	17.24
Soft drink establishments:							
1919.....	52	123	10	165	990	6.00	.83
Fish houses:							
1919.....	9	3		12	1,481	123.41	24.39
Miscellaneous:							
1918.....	105	182	125	162	1,028	6.34	.55
1919.....	162	124	11	275	1,476	5.35	.48

The following table shows the result of prosecution for violations of the laws and regulations of food and drugs acts during the fiscal year 1919, with corresponding figures for previous year:

Statement showing results of prosecution for violations of the laws and regulations of food and drugs acts during the fiscal year 1919, with corresponding figures for previous year.

	United States district attorney.		Police court.	
	1918	1919	1918	1919
Cases referred.....	82	55	267	309
Cases of fine and forfeiture.....	65	46	174	273
Cases of personal bonds taken.....	1	1	2	1
Cases nolle prossed.....	10	2	13	15
Cases acquitted.....	2	1	2	4
Cases pending.....	4	2	76	16
Amount of fines and forfeitures.....	\$1,330	\$2,180	\$1,141	\$2,066

The amount and kind of foodstuffs condemned during the year is shown in tables printed on page 71 of this report.

Detailed cost of inspection, amounting to approximately \$10,658.03, appears in tables printed on page 78 of this report.

Slaughterhouse inspection.—Fifteen slaughterhouses were under inspection by the health department.

The larger establishments engaged in interstate business are as heretofore, of course, subject to inspection by the United States Department of Agriculture and by the health department of the District; the inspection of such establishments is, however, left substantially to the Federal department.

At the establishments under inspection by the health department 188 cattle, 70 hogs, 105 calves, and 39 sheep were examined during the year.

Dairy farm supervision.—A statement showing in detail the amount and kind of work done during the fiscal year 1919, with respect to dairy farms on which milk and cream were lawfully produced for sale in the District of Columbia, will be found in the following table:

Dairy farms on which milk and cream were lawfully produced for sale in the District of Columbia during the fiscal year 1919, number and distribution of, with certain data pertaining thereto, and corresponding figures for the preceding year.

	Dairy farms registered.				Cattle.			Tuberculin tested.			
	Begin- ning of year.	During year.		Close of year.	Begin- ning of year.	During year.	Close of year.	Total.	Passed.	Re- acted.	Suspi- cious.
		Regis- tered.	Can- celed.								
Total:											
1918.....	1,139	185	193	1,131	22,295	721	21,574	15,269	14,715	448	106
1919.....	1,131	400	96	1,435	21,654	1,895	23,549	15,340	14,129	1,161	50
District of Co- lumbia:											
1918.....	25	1	6	20	417	119	208	206	194	12	.....
1919.....	20	7	.....	27	298	58	356	227	210	13	4
Maryland:											
1918.....	674	98	126	636	9,832	35	9,797	3,739	3,579	133	27
1919.....	636	296	78	854	9,797	931	10,728	6,479	6,129	323	27
Virginia:											
1918.....	433	86	61	458	11,680	531	11,149	10,086	9,709	298	79
1919.....	458	82	12	538	11,149	765	11,914	8,401	7,558	824	19
Pennsylvania:											
1918.....	1	.....	.....	1	160	5	165	199	194	5	.....
1919.....	1	8	.....	9	165	43	208	38	38	.....	.....
West Virginia:											
1918.....	6	.....	.....	6	206	41	245	39	39	.....	.....
1919.....	6	2	1	7	245	.....	112	97	96	1	.....
New York:											
1919.....	.....	5	5	.....	.....	98	.....	98	98	.....	.....

Supervision of dairy farms.—In the following table will be found the number and distribution of dairy farms lawfully supplying milk in and for the District of Columbia during the fiscal year 1919, and the frequency of inspections.

Inspections of dairy farms on which milk and cream were lawfully produced for sale in the District of Columbia during the fiscal year 1919, with certain data pertaining thereto, and corresponding figures for the preceding year.

	Inspections of farms.	Average frequency of inspections of each farm during year.	Average number of farms inspected per inspector per day worked.	Inspections of cattle.	Average frequency of inspection of each animal.
Total:					
1918.....	4,035	3.56	3.68	56,075	2.57
1919.....	4,415	3.07	3.57	32,138	1.65
District of Columbia:					
1918.....	267	13.35	.65	3,069	10.39
1919.....	219	10.95	.71	1,575	5.14
Maryland:					
1918.....	1,224	1.92	1.76	10,358	1.54
1919.....	2,503	2.93	2.73	10,728	1.08
Virginia:					
1918.....	2,529	5.40	2.42	41,946	2.90
1919.....	1,671	3.12	2.38	19,305	2.10
Pennsylvania:					
1918.....	1	.01	.003	250	.81
1919.....	2	.22	.006	208	.67
West Virginia:					
1918.....	14	2.33	.019	422	1.38
1919.....	12	1.71	.032	224	.62
New York:					
1919.....	5	1.00	.016	98	.32

It is with considerable gratification that I can report the practice of bringing into the District of Columbia milk and cream for sale without a permit so to do has now ceased. This condition has been brought about by hearty cooperation between the licensed milk dealers and the health department.

Supervision of dairies.—In the following table will be found the number and distribution of the dairies lawfully supplying milk in and for the District of Columbia during the fiscal year 1919, and the frequency of inspections:

Dairies in and for the District of Columbia during the fiscal year 1919, number and distribution of, with certain data pertaining thereto, and corresponding figures for the previous year.

	Licensed at beginning of the year.	Applications received.	Permits issued.	Permits surrendered.	Licensed at close of year.	Inspections during year. ¹	Average number of inspections of each dairy during year.	Average number of dairies inspected per day worked.
Total:								
1918.....	44	3	3	14	30	576	19.20	2.04
1919.....	30	3	3	2	31	660	21.29	2.16

¹ The inspector assigned to this work also has other duties to perform.

Chemical and bacteriological control of milk supply.—Samples of milk to the number of 8,303 and of cream to the number of 260 were collected and analyzed during the fiscal year. For detailed statement as to results see following table, and also report of the chemist printed in the appendix of this report.

Milk and cream in the District of Columbia: Chemical examinations during the fiscal year 1919, with corresponding figures for previous years.

Fiscal year.	Milk (8,303 samples) in 1919 containing—			Cream (260 samples) in 1919 containing—	
	Less than 3.5 per cent fat.	3 per cent fat and less.	Added water.	Less than 20 per cent fat.	18 per cent fat and less.
	<i>Per cent.</i> ¹	<i>Per cent.</i> ¹	<i>Per cent.</i>	<i>Per cent.</i> ¹	<i>Per cent.</i> ¹
1912.....	3.44	1.19	1.20	70.70	20.92
1913.....	4.89	.45	.63	64.92	12.54
1914.....	4.69	.44	.97	48.27	17.91
1915.....	7.71	3.03	.76	57.73	17.16
1916.....	8.52	.83	1.22	61.39	22.47
1917.....	10.63	.69	1.50	64.03	28.44
1918.....	18.02	3.49	1.57	68.00	33.61
1919.....	19.06	4.80	.61	59.61	29.61

¹ Per cent on basis of all samples of milk or of cream, respectively, examined.

Reference was made in last year's report to the amount of low-grade milk and cream coming into the District of Columbia and the increased frequency of watered milk. The condition of the milk supply of the District has been much improved during the past year. The shipment of milk and cream from unlicensed and uninspected dairy farms has now ceased.

Through the efforts of the health department many dairy herds supplying milk and cream to the District have been retested for tuberculosis, and as a result many diseased cows have been eliminated from such herds. The quality of the milk and cream now sold in the District of Columbia is good.

Bacteriological examinations were made of 2,030 samples of milk and cream during the fiscal year. The following table shows results of such examinations.

Milk and cream in the District of Columbia: Bacteriological examinations of 2,030 samples during the fiscal year 1919.

NUMBER OF SPECIMENS.

	Bacteria per cubic centimeter.				Colon group.	
	Under 10,000.	10,000 to 100,000.	100,000 to 1,000,000.	1,000,000 and over.	Present.	Absent.
Raw milk:						
From containers arriving by trolley or train.....	4	32	72	48	88	68
From containers as distributed to consumers.....	96	534	475	147	580	672
Heated milk sold as pasteurized: From containers as distributed to consumers..	128	268	137	89	245	377

PERCENTAGE OF SPECIMENS.

Raw milk:						
From containers arriving by trolley or train.....	25.64	20.51	46.15	30.76	54.41	43.58
From containers as distributed to consumers.....	7.68	42.66	37.93	11.74	46.32	53.67
Heated milk sold as pasteurized: From containers as distributed to consumers..	20.57	43.08	22.02	14.30	39.38	60.61

Special attention has been paid to soda fountains, and ice-cream and soft-drink places. The regulation requiring the sterilization of glasses and the proper cleansing of all equipment has been rigidly enforced and has resulted in a great improvement in the condition of these places.

During the fiscal year 1919, 40 cases were referred for prosecution for violation of the milk laws resulting in the imposing of fines amounting to \$2,180.

Grading of milk.—Pamphlets showing the grading of dairies selling milk in the District of Columbia are issued each month by the health department and will be mailed to any person upon written request.

Chemical control of foods other than milk and cream.—During the fiscal year 1919, 486 samples of food other than milk and cream were examined chemically. A detailed statement concerning this work will be found in the report of the chemist, on page 51 of this report.

BACTERIOLOGICAL LABORATORY.

The work done in this laboratory is covered in the work of the bureau of preventable diseases and the bureau of food inspection. See pages 37 and 47.

SEROLOGICAL LABORATORY.

The work done in this laboratory is covered in the work of the bureau of preventable diseases. See page 37.

CHEMICAL LABORATORY.

For details of work done in this laboratory see report of chemist on page 51 of this report.

BUREAU OF SANITARY INSPECTION.

General nuisance inspection.—During the year 8,883 complaints were acted upon. These complaints necessitated 12,051 inspections to be made. Official calls for purposes other than inspections or for the service of notices of inspectors in other districts numbered 20,896.

Approximately 72,527 official visits were made by the sanitary inspection service during the year.

Violations of laws and regulations for the prevention and abatement of nuisances to the number of 12,158 were reported, and in 11,832 cases compliance was procured before the close of the fiscal year. At the close of the year there were 326 cases pending. Prosecution was instituted against 676 persons, charging violation of the laws and regulations relating to public health. At the close of the last fiscal year 33 cases were pending, making a total of 709 prosecutions to be accounted for. These cases were disposed of as follows: Nolle prosequi was entered in 597 cases; personal bonds, 6; forfeiture of collateral, 47; acquitted, 3; fines imposed, 2; leaving 54 still pending at the close of the year.

The fines and collaterals collected amounted to \$267. To procure the abatement of nuisances on property belonging to nonresident owners 311 notices were served under the assessment system. In

all but 9 cases the nuisances were abated by the owners. In 9 cases the District government caused the necessary work to be done at a cost of \$221.88, which amount was assessed against the property.

Sanitary inspection of places of employment.—During the year 134 inspections were made of printing establishments. Systematic inspections were also made of bakeries, lunch rooms, restaurants, and other similar places in the interest of the health of the persons employed therein.

The following table shows the number of stables, barber shops, laundries, privies, fowl and pigeon houses, sewage-disposal systems, and lodging and tenement houses registered and under observation by the health department during the fiscal year 1919, the frequency with which such places have been inspected, and in a general way the results.

Registration and inspection of stables, barber shops, laundries, privies, fowl and pigeon houses, sewage disposal systems, and lodging and tenement houses during the fiscal year 1919.

	Stables.	Barber shops.	Laundries.	Privies.	Fowl and pigeon houses.	Sewage disposal systems.	Lodging and tenement houses.
Registered at the beginning of year.....	1,274	503	2,277	2,706	1,621	109	77
Registered during the year.....	42	108	103	43	148	3	11
Abandoned during the year.....	161	76	271	92	11	4	4
On register at close of the year.....	1,155	635	2,109	2,657	1,758	108	84
Number of inspections during the year.....	1,277	1,554	1,783	2,191	(1)	106	180
Average frequency of inspections.....	1.10	2.44	.84	.82	(1)	.98	2.14
Number of nuisances found.....	177	(1)	(1)	263	485	(1)	(1)

¹ Data not available.

Smoke inspection.—The work done in this service for the fiscal year 1919 is set forth in detail in the following table:

Smoke inspections during the fiscal years 1918 and 1919.

	1918	1919
Observations.....	7,221	6,509
Violations of law reported.....	1,217	813
Cases referred to corporation counsel.....	9	14
Cases of fines and forfeitures.....		12
Cases of personal bonds taken.....	1	1
Cases not-prossed.....	1	.....
Cases pending.....		1
Amounts of fines and forfeitures.....	\$100	\$120
Plants under observation.....		679
Number of inspections of plants.....		256
Reports of investigations, complaints and letters.....		127

The enforcement of the weed law is given such time and attention as can be spared from other more important duties devolving upon the sanitary inspection service.

Private hospitals and asylums.—During the fiscal year 1919 one license was issued to maintain a hospital for human beings.

Cost of bureau of sanitary inspection.—The approximate cost of the sanitary inspection service, exclusive of smoke inspection service, was \$19,315.83.

EIGHT-HOUR FEMALE LABOR LAW.

The number of establishments coming within the purview of the eight-hour law for women during the year was 1,969.

During the year 13,664 inspections were made and 84 complaints acted upon. Twenty cases were referred for prosecution for violation of the law regulating the hours of employment of females, resulting in fines and forfeitures amounting to \$240. The cost of enforcing the eight-hour law for women during the year was \$4,713.27.

WASHINGTON DIET KITCHEN ASSOCIATION.

In the appropriation act for the fiscal year 1919, \$15,000 was appropriated "for clinical examination, advice, care, and maintenance of children under six years of age, under a contract to be made with the Washington Diet Kitchen by the health officer of the District of Columbia."

In accordance with the provisions of this act a contract was executed on October 9, 1918. The terms of the contract, in addition to other things, provided for the establishment and maintenance of four infant welfare centers located at the following places: 2503 Pennsylvania Avenue NW.; Casualty Hospital, 1130 K Street SE.; and another located at 82 K Street NE. In addition to the welfare stations above enumerated which were to be maintained under the exclusive control of the health department, it was agreed that four additional centers would be maintained out of funds raised by the Diet Kitchen Association so far as such funds would permit. In accordance with this agreement these four stations were established and have been maintained at the following places: Georgetown Hospital, Children's Hospital, 350 C Street NW., and 1235 Four-and-a-half Street SW.

In the operation of the various welfare centers the association was greatly embarrassed by the great difficulty experienced in securing the services of physicians to serve the clinics. This difficulty was due in large measure to so many physicians being in the military service. Recently, however, a reorganization of the medical and nursing force has been brought about, which it is believed will add greatly to the efficiency of the service. The following table shows the amount of work done at the several stations:

Washington Diet Kitchen: Children and prenatal cases admitted, visits of cases to centers, and visits of nurses to homes, enumerated by centers.

Center.	Location.	Children admitted.							
		Under 3 years.		3 to 6 years.		Total.	Prenatal.		Total.
		White.	Colored.	White.	Colored.		White.	Colored.	
1	Georgetown Hospital.....	171	97	18	14	300	2	4	6
2	2503 Pennsylvania Avenue NW.....	221	269	30	45	565	45	79	124
3	Children's Hospital.....	168	608	8	33	817	.....	17	17
4	330 C Street NW.....	239	118	23	1	381	15	16	31
5	1235 Four-and-a-half Street SW.....	153	116	12	1	282	10	2	12
6	Casualty Hospital.....	301	114	12	8	435	20	31	51
7	1130 K Street SE.....	162	133	19	10	324	8	10	18
8	82 K Street NE.....	89	87	.....	.....	176	5	10	15
	Total.....	1,504	1,542	122	112	3,280	105	169	274

Center.	Location.	Number of visits of cases to centers.				Nurses' visits to homes.
		Under 3 years.	3 to 6 years.	Prenatal.	Total.	
1	Georgetown Hospital.....	1,473	29	2	1,504	2,899
2	2503 Pennsylvania Avenue NW.....	2,762	150	339	3,251	5,543
3	Children's Hospital.....	3,720	121	36	3,877	4,528
4	330 C Street NW.....	2,172	326	91	2,589	2,836
5	1235 Four-and-a-half Street SW.....	1,893	75	23	1,991	2,678
6	Casualty Hospital.....	2,099	59	98	2,256	2,510
7	1130 K Street SE.....	544	49	1	594	1,998
8	82 K Street NE.....	362	8	33	403	953
	Total.....	15,025	817	623	16,465	23,944

¹ Center 7 opened Dec. 1, 1918.

² Center 8 opened Dec. 1, 1918.

All centers were closed from Oct. 2 to Oct. 29, 1918. Nurses cooperated with United States Public Health Service in influenza epidemic.

THE POUND SERVICE.

Animals to the number of 4,910 were received at the pound during the fiscal year 1919, as follows: 2,749 dogs, 2,149 cats, 13 horses, and 1 mule. Dogs to the number of 1,798 were captured while running at large, and 949 were surrendered for destruction or quarantine by the persons having custody of them.

The impounded dogs were disposed of as follows: 1,855 were killed, 352 were redeemed, 526 were sold, and 14 were returned after quarantine, 14 being on hand at close of year. The fees collected through the activities of the pound service during the fiscal year 1919 were as follows: Fees, \$732; sales, \$572; reimbursements for food, \$7.05.

The total cost of maintaining and operating the pound service during the fiscal year was \$6,122.95. Deducting from this amount the fees, etc., collected, the net cost of the service was \$4,811.90. See table on page 73 for further details as to work done.

Owing to the continued prevalence of rabies in the District of Columbia, the commissioners on July 2, 1918, again issued a proclamation requiring the muzzling of all dogs running at large, this requirement to be in effect until July 9, 1919.

BUREAU OF ADMINISTRATION.

On July 1, 1918, Dr. William C. Woodward, health officer, resigned, to take effect August 1, 1918. Dr. William C. Fowler, assistant health officer, was appointed to succeed him.

Dr. Woodward was appointed health officer of the District of Columbia August 1, 1894, and his term of service covered a period of exactly 24 years. He resigned to accept the position of commissioner of health of the city of Boston, Mass. His resignation as health officer of the District of Columbia and his acceptance of the Boston position was a great loss to this District and a great gain to the city of Boston. As health officer he built up the present health organization in this District and during his term of office was instrumental in securing many acts of legislation of vital importance to the health of the citizens of the District.

Dr. John L. Norris, who was granted indefinite military leave, returned to his official duties as assistant health officer on June 1, 1919.

Dr. Joseph J. Kinyoun, bacteriologist of the health department, who was granted indefinite military leave, died February 14, 1919, while still in the military service. Dr. Kinyoun was one of the best known bacteriologists in this country, and his death was a serious loss to the health department.

Correspondence and files.—There were received during the year 11,292 written and 5,200 oral complaints. The letters sent out by this department numbered 14,514. There were entered and filed 1,271 special reports by employees. The cost of maintaining this bureau during the year was approximately \$11,974.75.

BUREAU OF VITAL STATISTICS.

Deaths in the District of Columbia recorded by the bureau of vital statistics during the year numbered 9,234. Deaths occurring outside of the District of Columbia, the remains being brought into the District for burial, numbered 965.

Birth certificates to the number of 8,118 were recorded during the year, and 506 stillbirths.

Transcripts from records.—The following table shows the number of transcripts issued from the records of births, stillbirths, deaths, and marriages during the fiscal year 1919. The fees collected for these transcripts amounted to \$965. Transcripts to the number of 220 were issued without fee to various bureaus and offices of the government.

REPORT OF THE HEALTH OFFICER.

Transcripts issued during the fiscal year 1919.

	Mar- riages.	Births.	Deaths.	To
Commissioner of Pensions (without fee).....	5	22	106	13
Local exemption boards (without fee).....		6	3	
Police Department, District of Columbia (without fee).....		5	13	1
Navy Department (without fee).....		1	4	5
Marine Corps (without fee).....			1	1
Board Children's Guardians (without fee).....		1	1	
Fire Department, District of Columbia (without fee).....			1	
Associated Charities (without fee).....			1	
War Department (without fee).....			4	
Red Cross (without fee).....		40		4
Juvenile court (without fee).....		6		
Total without fee.....	5	81	134	2
Issued with fee (\$965).....	9	387	1,534	1
Total issued.....	14	468	1,668	

The following table shows the number of physicians, dentists, undertakers, podiatrists, and midwives on the register of the health department during the fiscal year 1919:

Physicians, dentists, undertakers, midwives, and podiatrists on register during fiscal 1919.

	On register July 1, 1918.	Regis- tered during the year.	Known deaths during the year.	ref Ju 1
Physicians.....	1,960	121	9	
Dentists.....	920	26		
Undertakers.....	310	10		
Midwives.....	88			
Podiatrists.....		51		

¹ Registered by licenses, 43. Registered without licenses: U. S. Navy, 38; U. S. Army, 19; Health Service, 21.

Permit and complaint office.—The number of complaints received during the fiscal year 1919, was 5,200.

Cost.—The cost of maintaining and operating the bureau of vital statistics during the year was \$7,316.63. Fees for the issuance of transcripts amounted to \$965, leaving the net cost of the bureau during the year \$6,351.63.

LEGISLATION.

Amendments to the regulations governing public health were during the year as follows:

ORDER REQUIRING THAT DOGS IN THE DISTRICT OF COLUMBIA BE MUZZLED

COMMISSIONERS OF THE DISTRICT OF COLUMBIA,
July 2, 1919

Ordered, That, under the provisions of section 7 of the act of Congress approved June 19, 1878, entitled "An act to create a revenue in the District of Columbia by levying a tax upon all dogs therein, to make such dogs personal property, and for other purposes," the commissioners hereby give notice that every dog in said District shall, for a period of one year from and after July 9, wear a good substan-

zle, securely put on, so as to prevent it from biting or snapping, and any dog at large during said period without such muzzle shall be taken up by the pounder and impounded.

to Official copy furnished health officer.
by order:

(Signed) C. W. CAMALIER, *Secretary.*

Officially published in the Washington Post, Herald, Star, and Times, July 3, 1918.

REGULATIONS FOR THE PREVENTION OF EPIDEMIC INFLUENZA (SPANISH INFLUENZA)
IN THE DISTRICT OF COLUMBIA.

COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

October 3, 1918.

Ordered, That every person in charge of any patient in the District of Columbia who is suffering from epidemic influenza (Spanish influenza) immediately after coming aware of the existence of such disease shall send to the health officer of said District a certificate, written in ink, signed by such person, stating the name of the disease, the name, age, sex, and color of the person suffering therefrom, and the place at which he or she has attended, if any, and setting forth, by street and number, the other sufficient designation the location of the house, room, or other place in which said patient can be found. As soon as practicable after the recovery of any patient suffering from epidemic influenza the person in charge shall send to the health officer of said District a certificate, written in ink, and certifying to that fact.

2. The term "person in charge of any patient," as used in these regulations, shall be held to mean, first, each physician in attendance on, called in to visit, or attending a patient, unless called in to visit or examining the patient solely as a consultant to a physician already in attendance; second, in the absence or disability of a physician aforesaid, or in event of default on the part of such physician, the nearest member of the family to which the patient belongs; third, in the absence or disability of a person, or in event of default on the part of the physician aforesaid, the nearest relative or relatives of such patient present on the premises and in attendance on the patient; fourth, in the absence or disability of all persons aforesaid, or in the event of default on the part of the physician aforesaid, every person in attendance on the patient.

3. It shall be the duty of the person in charge of any patient suffering from epidemic influenza, if said person has power and authority so to do, to adopt each and every one of the following precautions to prevent the spread of such disease:

To isolate the patient immediately upon the discovery of the nature of the disease as thoroughly as is practicable from all persons who are not suffering from the disease and who are not necessarily in attendance upon the patient, and to maintain such isolation until the temperature of the patient has returned to normal.

To disinfect each and every article used by or about the patient and all excreta from the patient, and such other articles, if any, as have been specially exposed to infection, before the removal of such article or excreta from said room or rooms if practicable, and otherwise as soon thereafter as is practicable.

4. It shall be unlawful for any person having power and authority to prevent, permit a patient suffering from epidemic influenza, at any time between the onset of the disease and the return of the patient's temperature to normal, to do, and it shall be unlawful for any such patient to do any of the following things:

That appear upon the public street.

That appear in school, church, store, or place of amusement, or in any other place of assemblage.

That enter a public conveyance, except a vehicle designated by the health officer for the conveyance generally of persons suffering from minor contagious diseases, or a vehicle designated by the health officer for the conveyance of the particular case.

That go or to be carried from place to place over the public streets without authority from the health officer, except that in case of an emergency, and prior to the reporting of the case, the patient may be moved under the direction of a registered physician to any place where the case is found to some other place in the District of Columbia for its reception, but in such instances the report cards shall indicate the place where the case occurred as well as the place to which the patient has been moved.

5. No person shall knowingly expose himself or any other person, or if he has power and authority to prevent, permit any other person to be exposed to infection, from epidemic influenza unless such exposure is necessary for the proper care and treatment of the patient.

SEC. 6. No person who is nursing a patient suffering from epidemic influenza shall mingle with other persons who are not so engaged and who are not suffering from the disease from which the patient is suffering until after said person has properly disinfected the hands and face.

SEC. 7. The health officer shall make such investigations into the nature and origin of cases of epidemic influenza occurring in the District of Columbia as in his judgment may be necessary to prevent the spread of said disease, and shall cooperate with persons having charge of patients suffering from such disease as he deems needful for the prevention of the spread thereof. And in the discharge of each and every of the duties herein imposed, the health officer may act not only in person, but also through employees in the service of the health department duly designated by him for that purpose.

SEC. 8. No person shall interfere with the health officer or with any officer, employee, or agent of the health department in the enforcement of these regulations.

SEC. 9. Any person who is suffering from symptoms that so resemble those of epidemic influenza that they can not be distinguished therefrom with reasonable certainty shall be regarded for the purpose of these regulations as suffering from said disease.

SEC. 10. Any person who violates any of the provisions of these regulations shall be punished, upon conviction thereof, by a fine not exceeding \$50 for the first offense, and for each subsequent offense by a fine not exceeding \$100.

The above regulations to be effective on and after October 5, 1918.

LOUIS BROWNLOW,
JOHN G. D. KNIGHT,
W. GWYNN GARDINER,
Commissioners, D. C.

Officially published in the Washington Post October 5, 1918.

Respectfully,

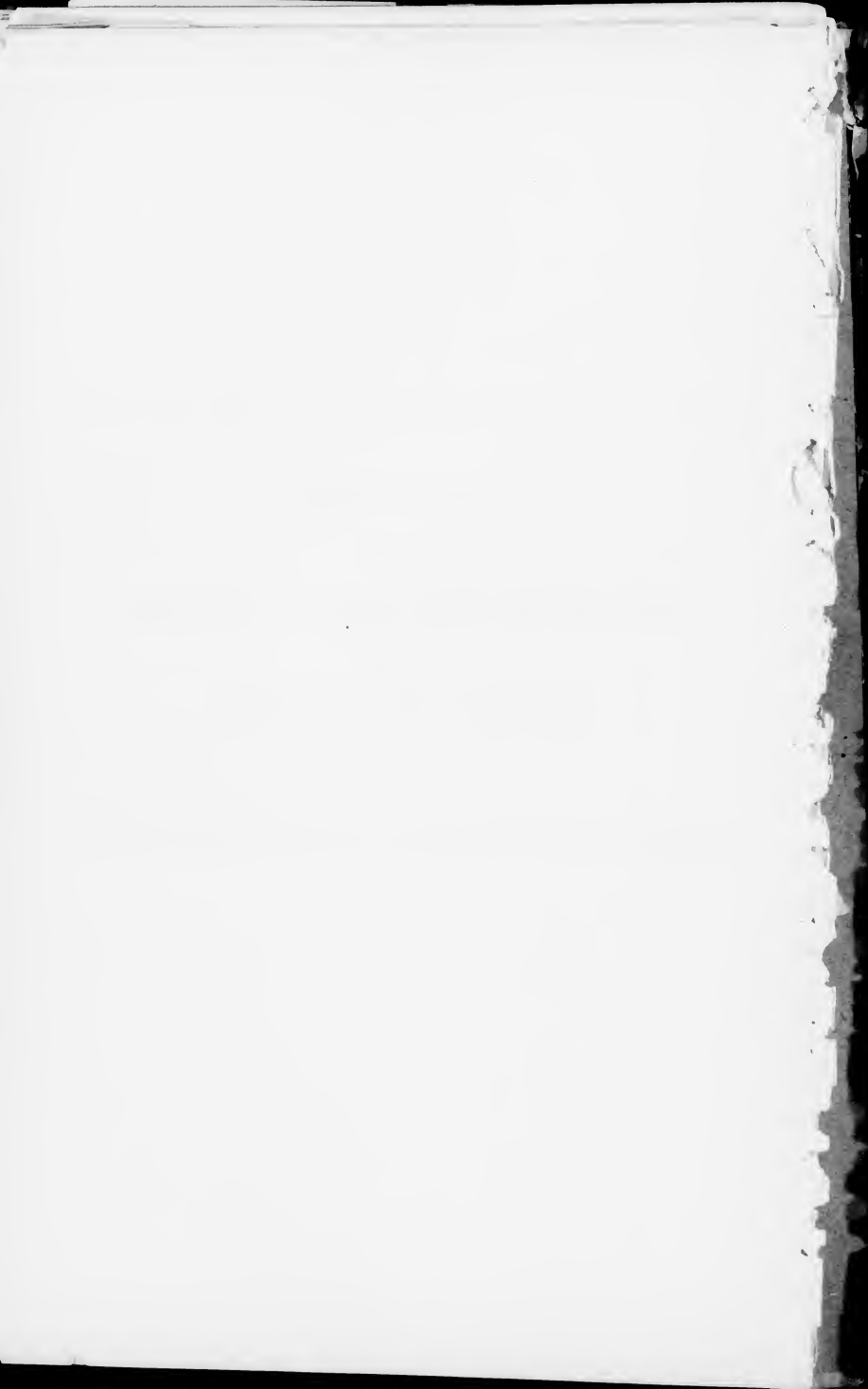
W. C. FOWLER, M. D.,
Health Officer.

TO THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

139073—D C 1919—VOL 3—3

APPENDIXES
TO THE
REPORT OF THE HEALTH OFFICER
OF THE
DISTRICT OF COLUMBIA.

The publication of these reports as appendixes to the report of the health officer is not to be construed to mean that the opinions and recommendations set forth in them have been adopted by the health department.



APPENDIX A.

REPORT OF THE CHIEF MEDICAL INSPECTOR.

AUGUST 6, 1919.

DR. WILLIAM C. FOWLER,

Health Officer, District of Columbia.

SIR: I have the honor to submit the following report for the fiscal year ending June 30, 1919, of work done in the contagious-disease service, disinfecting service, and the public crematorium. The figures relating to administrative matters cover the fiscal year named. Those relating to morbidity and mortality cover the calendar year 1918.

COMMUNICABLE DISEASES.

Figures showing the prevalence and fatality of each of the reportable diseases will be found with the tables relating to the disease. There was a decrease in the number of reported cases of anterior poliomyelitis, chicken pox, diphtheria, epidemic cerebrospinal meningitis, measles, pellagra, scarlet fever, typhoid fever, and whooping cough. An increase was noted in the number of reported cases of tuberculosis. One case of leprosy was reported.

Diphtheria.—During the calendar year of 1918, 517 cases of diphtheria with 39 deaths (7.54 per cent) were reported, as compared with 1,130 cases and 37 deaths (3.2 per cent) during the preceding year. The 1918 figures include 75 Army and Navy cases, of which 2 died (2.6 per cent). The noticeable increase in the percentage of deaths is accounted for by the fact that an epidemic of this disease occurred in the early months of the current year with a high percentage of clinical cases.

Two institutional outbreaks occurred as follows—the large majority of the cases reported being, however, “carrier cases”:

Institution.	Beginning of outbreak.	Cases.
Bruen Home.....	May 20, 1918	10
Children's Temporary Home and Industrial School.....	June 22, 1918	12

Whenever an outbreak occurs in an institution an endeavor is made to impress those in charge with the advisability and resultant benefit of the isolation of each child upon admission pending the result of a nose and throat culture, this procedure being designed to prevent contact by possible carriers with the other children. From January 1, 1919, to June 30, 1919, 51 cases and 2 deaths were reported by the Army and Navy (3.9 per cent). The total from all sources for the same period was 631 cases and 65 deaths (10.3 per cent), as compared with 314 (including 59 Army and Navy) cases and 17 deaths (5.4 per cent) during the same period of 1918. The

increase of 100 per cent of cases for the first six months of the current year as revealed by these figures is traceable to the epidemic which occurred early in 1919, as above noted.

Scarlet fever.—During the calendar year 1918, 883 cases with 16 deaths (1.81 per cent) were reported, as against 584 cases and 8 deaths (1.38 per cent) during the preceding year. Included in the 1918 figures were 168 Army and Navy cases with 7 deaths (4.1 per cent). The 1918 figures show an increase over the preceding year of 299 cases, while the percentage of deaths increased from 1.38 per cent to 1.81 per cent. From January 1, 1919, to June 30, 1919, 22 Army and Navy cases were reported, with no deaths. The total from all sources from this period was 441 cases and 2 deaths (0.45 per cent) as compared with 789 (including 147 Army and Navy) cases and 14 deaths (1.8 per cent) during the corresponding period in the year previous. These figures show a very gratifying decrease for the year 1919, both in cases reported and deaths resulting. One institutional outbreak occurred as noted below:

Institution.	Beginning of outbreak.	Cases.
National Training School for Boys.....	Jan. 7, 1918	107

Here again might be emphasized the value of inaugurating isolation rooms in institutions for the observation of children seeking admission. With such facilities so-called "peelers" would be discovered and those apparently all right could be watched a prescribed number of days on the premise that they might have been in contact with scarlatina immediately before their admission.

One Army case was reported from Walter Reed General Hospital as suffering also from leprosy and smallpox. The cause of death in this case was given as smallpox.

Typhoid fever.—During the calendar year 1918, 217 cases of typhoid fever with 48 deaths (22.1 per cent) were reported, as against 338 cases with 49 deaths (14.5 per cent) for the preceding year. These figures include 13 Army and Navy cases and 4 deaths (37 per cent). While it is to be observed that there was a decrease of 121 cases reported, the percentage of fatalities increased from 14.5 to 22.1 per cent. No institutional outbreaks and no local outbreaks traceable to milk and water supply occurred during this period. A summary of the 217 cases of typhoid fever gave the following information:

Contracted outside of the District of Columbia.....	77
Contracted probably outside of the District of Columbia.....	17
Contracted from other cases.....	3
Contracted probably from other cases.....	3
Contracted from sources unknown.....	117
Total.....	217

In every case possible to obtain information, the source of water supply used by the patient was obtained, with the following results:

Potomac water exclusively.....	121
Well water.....	7
Spring water.....	2

In 44.7 per cent of the cases in which information was obtainable the premises were well screened; 2.1 per cent of the patients had eaten raw oysters; 23.9 per cent had eaten raw vegetables; 26 per cent had eaten ice cream; 1.8 per cent had bathed at the bathing beach; 0.9 per cent had bathed in the river and at other places; 2.7 per cent had employed new domestics; 19 per cent had visitors at their home, and 1.4 per cent had visited other places where a case of typhoid fever existed.

From January 1 to June 30, 1919, 30 (including 1 Army) cases were reported with 3 deaths, as against 56 cases with 16 deaths for the corresponding period of the preceding year.

Smallpox.—During the calendar year 1918, 48 cases of smallpox were reported, all of which recovered. During the previous year 11 cases were reported with no deaths. From January 1, 1919, to June 30, 1919, there were reported 170 cases with 1 death. Of this total, 1 case was reported from Walter Reed General Hospital. Attention should be called to the fact that in this case scarlet fever and leprosy were reported to coexist and that this was the patient against whom the smallpox death was charged.

The vaccination histories of the 48 patients for the calendar year 1918 as obtained from the patients were as follows:

Never vaccinated.....	31
Never successfully vaccinated.....	13
Vaccinated 15 years ago.....	1
Vaccinated 19 years ago.....	1
Vaccinated 40 years ago.....	1
Vaccinated when a child.....	1
Total.....	48

It is noted that the records show a decided yearly increase in this disease for the past several years. Thus in 1916 there were reported 4 cases; in 1917 there were 11 cases; in 1918 there occurred 48 cases; and for the first six months of 1919 there were reported 170 cases. The increase began about the time this country entered the war and kept pace with the steady growth in numbers of persons coming to this city to take up work connected with the war preparations and others to take advantage of opportunities offered in other fields occasioned by such unusual activities and conditions. There is no doubt that the resultant congestion, the overcrowding due to inadequate housing facilities and the close commingling in street cars, theaters, restaurants, etc., by persons from all walks of life and from all sections of this country, the war zone and various foreign countries, were all potent factors to be considered in attempting to explain this remarkable and progressive increase.

Pellagra.—During the calendar year 1918, 14 cases and 9 deaths were reported, which compares very favorably with the records of 1917, when 19 cases and 14 deaths were recorded. The death percentage for 1918 was 64.3, showing a material decrease over 73.7 per cent for the previous year. Of the 14 cases reported in 1918, there were 9 white and 4 colored. From January 1, 1919, to June 30, 1919, there were reported 4 cases and 4 deaths, all colored. No cases of Army or Navy origin were recorded for 1918 or for the first six months of 1919.

Leprosy.—No additional cases were reported during 1918. One case remaining under the care of this department at the close of the

fiscal year 1918 escaped quarantine and left this jurisdiction without authority September 16, 1918.

During the first six months of 1919, one new case was reported by the military authorities at Walter Reed General Hospital. This patient was isolated on that reservation, so was not under the care of this department. He was diagnosed as suffering also from scarlet fever and smallpox. The cause of death in this case was given as smallpox, disposal of this case in the records being, therefore, under that heading. Notation to that effect will be found under smallpox section.

Whooping cough.—During the calendar year 1918 there were reported 1,749 cases (including 1 Army) with 48 deaths, while during the previous year there were recorded 1,013 cases and 18 deaths. The reports for the first six months of 1919 show a total of 466 cases and 7 deaths, none being from Army or Navy sources. Two institutional outbreaks occurred as table below indicates:

Institution.	Beginning of outbreak.	Cases.
St. John's Orphanage.....	June 17, 1918	22
Crittenton Home.....	Aug. 20, 1918	11

Measles.—During the calendar year 1918 there was reported a large total of 6,999 cases with 48 deaths (0.68 per cent), as compared with 3,807 cases and 14 deaths (0.37 per cent) for the calendar year 1917. Figures for 1918 include 458 Army and Navy cases and 13 deaths (2.8 per cent). From January 1, 1919, to June 30, 1919, 145 cases and 1 death were reported, which included 4 Army and Navy cases and no deaths.

But one outbreak occurred in an institution as noted below:

Institution.	Beginning of outbreak.	Cases.
National Asylum for the Relief of Destitute Colored Women and Children.....	Feb. 21, 1918	9

The marked increase in cases over the previous year is, of course, indicative of the occurrence of an epidemic of considerable proportions.

Tuberculosis.—There were recorded during the calendar year 1918, 1,140 cases and 690 deaths (60.5 per cent), showing a slight increase in cases, but a slight decrease in percentage of deaths, over the preceding year, when 1,006 cases and 633 deaths (63 per cent) were reported. Figures for 1918 include 186 Army and Navy cases and 7 deaths (3.7 per cent). For the first six months of 1919 there were recorded 344 cases with 234 deaths (68 per cent), of which total 75 cases and 7 deaths (9.3 per cent) were reported from Army and Navy sources.

These figures, of course, refer only to pulmonary and other communicable forms of tuberculosis, and of these various types of infection the pulmonary form naturally exhibits the preponderating percentage. This fact will of itself be sufficient explanation for the high mortality percentage.

Anterior A. myelitis.—During the calendar year 1918 there were reported 2 cases (including 1 Navy) and no deaths. This compares very favorably with the preceding year, when 6 cases and 2 deaths were recorded. No cases occurred during the first six months of 1919.

Epidemic cerebrospinal meningitis.—The calendar year 1918 cases totaled 118 with 28 deaths (23.4 per cent), as compared with 33 cases and 17 deaths (51.5 per cent) for the calendar year 1917. For 1918, 58 Army and Navy cases with 6 deaths (10.3 per cent) were reported. From January 1, 1919, to June 30, 1919, there were reported 8 cases and 4 deaths (50 per cent). No cases were reported in the Army or Navy during that period.

Influenza.—The accompanying tables show the cases of influenza reported, with deaths, during the calendar year 1918, by age periods and by months. The monthly table is necessarily incomplete by reason of the fact that this disease was not reportable prior to October 3, 1918, on which date it was included in the list of reportable communicable diseases by regulation of Commissioners of District of Columbia. It will be noted that a few cases were reported in September, the result of a request by the health officer that physicians report these cases before it was made compulsory by ordinance. These few cases, however, represent only 10 days of that month, as the first case to come to the attention of the department officially was on September 21, when a death from influenza was reported. That date marks, officially and statistically, the beginning of the epidemic in Washington.

Influenza: Reported cases and deaths, by race and months, during the calendar year 1918.

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....		11		10		21
February.....		7		4		11
March.....		9		6		15
April.....		8		2		10
May.....		1		2		3
June.....						
July.....				1		1
August.....		1				1
September.....	151	34	24	3	175	37
October ¹	19,513	1,127	3,746	344	23,259	1,471
November.....	996	106	183	25	1,179	131
December.....	5,108	273	974	54	6,082	327
Total.....	25,768	1,577	4,927	451	30,695	2,028

¹ Influenza made reportable by commissioners' regulation of Oct. 3, 1918.

Influenza: Cases and deaths, with percentage of deaths to cases, at $\frac{1}{10}$ in age periods during the calendar year 1918.

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Per- cent- age of deaths to cases.	Cases.	Deaths.	Per- cent- age of deaths to cases.	Cases.	Deaths.	Per- cent- age of deaths to cases.
Under 1 year.....	125	23	18.4	50	12	24.0	175	35	20.0
1 to 4 years.....	1,433	51	3.5	358	44	12.2	1,791	95	5.3
5 to 9 years.....	2,740	37	1.3	533	17	31.8	3,273	54	1.6
10 to 19 years.....	4,927	102	2.1	956	44	4.6	5,883	146	2.4
20 to 29 years.....	8,086	600	7.4	1,395	137	9.8	9,481	737	7.3
30 to 39 years.....	5,286	526	9.9	1,000	106	1.1	6,286	632	1.0
40 to 49 years.....	2,081	118	5.6	416	54	12.9	2,497	172	6.8
50 to 59 years.....	725	53	7.3	158	20	12.6	884	73	8.2
60 to 69 years.....	224	29	12.9	48	11	22.9	272	40	14.8
70 years and over.....	120	38	31.6	13	6	46.1	133	44	33.1
Total.....	25,768	1,577	6.1	4,927	451	9.1	30,695	2,028	6.6

The percentage of deaths estimated on total of cases reported is 6.6, but it is the opinion of those who were charged with keeping the records during the epidemic that this death rate is too high for the actual number of cases which are believed to have occurred. The department had reason to believe that the demands made upon the physicians during the epidemic precluded the possibility of their reporting each and every case coming to their notice. Unofficial inquiry among a number of the District's physicians confirmed this belief, and based on their own conjectures it was estimated that the total of 30,695 cases represented about 60 per cent of the number of cases which actually occurred and received medical attention. Following this line of argument, then, the number of cases which occurred would approximate 51,150. The total of deaths of course is known to be authentic, as these figures were compiled from the death certificates. Therefore, the figures which are thought to more closely represent the true percentage of deaths would be 3.96 per cent instead of 6.6 per cent. This being a comparison by conjecture, unsubstantiated by proof, the lower rate, while more attractive, must be rejected for purposes of official statistics in favor of the higher rate computed on recorded figures.

The total number of cases reported for the first six months of 1919 was 3,970 with 263 deaths (6.6 per cent).

Previous to the occurrence of this epidemic, the United States Housing Corporation had leased a large office building at 612 F Street NW, to be used for housing Government employees. When the influenza assumed epidemic proportions, the United States Public Health Service requisitioned this building and equipped it as an emergency influenza hospital. Upon the completion of the influenza hospital at Eighteenth Street and Virginia Avenue, the patients were removed to that building from 612 F Street NW. and the latter building was dismantled. Later, early in December, when it appeared that the epidemic had entered upon the second stage following a temporary subsidence, it was arranged between the District Health Department, the United States Public Health Service, the American Red Cross, and the Medical Corps, United States Army, to reopen this building at 612 F Street NW. as an influenza hospital to be operated under

supervision of the Health Department of the District of Columbia. The United States Public Health Service equipped the building with the necessary supplies and supplied a surgeon, acting as executive officer, responsible to the health officer of the District. The Red Cross Society furnished a staff of nurses and the Medical Corps of the Army detailed physicians and orderlies. Funds for maintenance were donated in the amount of \$5,000 each by the United States Public Health Service, the Red Cross Society, and the Health Department of the District. Under this combined force the hospital was reopened on or about December 19, 1918, with a capacity of 81 beds, and was operated under this agreement until March 1, 1919. During this period there were admitted and treated 219 patients, of whom 30 died. The patient days for this period totaled 2,046.

On March 1, 1919, this agreement for joint operation and responsibility was terminated and the Health Department of the District of Columbia took over the control of the hospital in its entirety and assumed sole responsibility for its maintenance and operation. The institution was conducted on this basis until March 15, 1919, at which time it had been cleared of patients, the last of whom had been discharged March 12. The crisis having passed and there being no further requests for admissions, the hospital personnel was disbanded and the building closed. All equipment, however, was retained in the building, which was guarded by a caretaker living there, and the premises were kept under observation by a representative of the health department to insure its being in readiness for further occupancy if need arose. The health department retained possession of the premises until June 1, 1919, when it was finally dismantled, the equipment being returned to the United States Public Health Service, and the building surrendered to the owner's representative.

On March 1, when the District Health Department assumed entire charge of the hospital, there remained in the hospital 6 patients. From March 1 to 15 there were admitted 4 patients. Of the total number of patients treated during this interval none died. The patient days for this period totaled 50.

From the reopening December 19, 1918, to the final closing March 15, 1919, the number of patients admitted was 223, of whom 30 died, a percentage of 13.4. The total number of patient days was 2,096, the average number of days each patient remained being 9.4. The shortest time any one patient remained in the hospital was 1 day and the greatest number of days any one patient remained was 55. Some of the more critical cases continued under treatment and observation 55, 51, 49, 27, and 26 days.

ISOLATING WARDS.

The following table shows the number of patients treated at Garfield Memorial and Providence Hospitals, and the diseases for which said patients were treated, together with the total number of patient days during the fiscal year 1918-19:

Service rendered by the isolating wards of Garfield Memorial and Providence Hospitals during the fiscal year 1918-19.

Diseases treated.	Cases treated at public expense.				Private cases.			
	Number of patients.		Patient days.		Number of patients.		Patient days.	
	Garfield.	Providence.	Garfield.	Providence.	Garfield.	Providence.	Garfield.	Providence.
Chicken pox.....	4		41		3		59	
Diphtheria.....		184		2,217		107		1,113
Diphtheria and scarlet fever.....								
Epidemic cerebrospinal meningitis.....	4		95		4		34	
Erysipelas.....	3		36		6		94	
Measles.....		4		38		7		88
Scarlet fever.....	52		1,732		105		3,041	
Scarlet fever and measles.....								
Suspected scarlet fever.....	2		6		2		10	
Suspected diphtheria.....		26		102		14		44
Suspected erysipelas.....					1		1	
Suspected epidemic cerebrospinal meningitis.....					1		4	
Whooping cough.....	3		98		2		89	
Whooping cough and measles.....								
Total.....	68	214	2,008	2,357	124	128	3,332	1,245

Hospitalization of communicable diseases during the calendar year 1917-18, exclusive of cases treated in Army and Navy hospitals.

Diseases.	Cases reported.		Treated in hospitals.			
			Number of cases.		Percentage of all cases.	
	1917	1918	1917	1918	1917	1918
Diphtheria.....	1,127	517	253	266	22.4	51.4
Scarlet fever.....	527	883	231	360	43.7	40.7
Measles.....	3,465	6,999	130	647	3.7	9.24
Whooping cough.....	1,012	1,749	16	29	1.5	1.08
Chicken pox.....	1,244	728	19	22	1.5	3.02
Smallpox.....	7	48	7	48	100.0	100.0
Epidemic cerebrospinal meningitis.....	24	118	19	105	79.1	88.9
Anterior poliomyelitis.....	6	2	2	2	33.3	100.0
Typhoid.....	335	217	220	126	65.6	58.06
Pellagra.....	18	14	14	7	77.7	50.0

DISINFECTING SERVICE.

During the fiscal year 1918-19, 1,896 premises were disinfected for the diseases named: Diphtheria, 601; scarlet fever, 444; smallpox, 118; tuberculosis, 720; meningitis, 10; poliomyelitis, 1; influenza, 1; and syphilis, 1.

The following articles were disinfected at the disinfecting station: Mattresses, 89; feather beds, 12; bolsters, 10; pillows, 136; carpets, 1; quilts, 60; blankets, 69; mattings, 1; rugs, 11; cushions, 15; portiers, 3; books, 502; total, 909. In the fiscal year 1917-18, 2,513 premises and 326 articles were disinfected.

PUBLIC CREMATORY.

During the fiscal year 1919, 579 bodies were cremated—137 adults, 169 infants, and 273 stillborn babies. The total cost of maintaining the crematory, including personal service, repairs, supplies, etc., was \$1,904.43.

Estimating the bodies of 169 infants as equivalent to 15 adult bodies, and excluding stillborn children altogether, an equivalent to 152 adult bodies were cremated. Figured on 152 adult bodies, the cost of cremation for an adult body was \$11.82.

There were 82 private cremations during the year, for which fees were paid amounting to \$2,050. Deducting from this amount the total cost of maintenance, the difference, \$145.57, represents the net earnings of the crematorium for the fiscal year 1919.

The crematorium was in operation during the year 118 days.

Very respectfully,

J. PAUL FREY, M. D.,
*Chief, Bureau of Preventable Diseases and
Director of Bacteriological Laboratory.*

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APPENDIX B.

REPORT OF THE CHIEF FOOD INSPECTOR.

JULY 1, 1919.

Dr. WILLIAM C. FOWLER,
Health Officer, District of Columbia.

DEAR SIR: I have the honor to submit the annual report relative to the operation of the food-inspection service during the fiscal year ended June 30, 1919.

The past year has been the most eventful and most successful in the history of the food service. The success was due to the hearty cooperation of all inspectors in the service, who pledged themselves to assist in putting the food service on a plane second to none and to aid the health officer in making the year an eventful one. This could only be accomplished by much self-denial and overtime work, and I gladly state this support was given in a spirit and manner that was highly commendable. Aside from the part accomplished by the inspectors in the past year, remarkable advancement was made toward improving the service by the inauguration of meetings between the health officer and persons engaged in the handling, production, and selling of foods in the District of Columbia. This cooperative work resulted in a better understanding between all parties concerned. An instance of the result of such meetings is plainly seen in the controversy as to the price of milk last April, when the health officer, due to these conferences and being in close touch with the prevailing conditions, was in a position to lower the price of milk to the consumer to 14 cents per quart, which had been 16 cents per quart. The solving of this problem at this time was more remarkable when it is considered that the Food Administration had been abolished and there was no restriction whatever as to the price of milk.

The food inspectors were detailed as follows:

Six inspectors on dairy farm inspection.

One inspector on dairy inspection.

Two inspectors on restaurant and soft-drink establishment inspection.

Two inspectors on grocery store inspection.

Two inspectors on wholesale market inspection.

One inspector on municipal wharf for marine product inspection.

One inspector for collecting samples from milk imported into the District of Columbia and sold in the District of Columbia.

Two inspectors on miscellaneous establishments.

One inspector on keeping the records of the food-inspection service.

The volume of work accomplished (see table of inspection, page 71) is most creditable to the force employed.

Dairy farms.—This branch of the service has been taxed to the utmost for the past year, due to the large increase in the number of applications having been filed for dairy farm permits and in the

development of new territory in the production of milk for the District of Columbia in the vicinity of Bel Air, Md., and Watkins, N. Y. The inspection of dairy farms at milking time has greatly improved the quality of milk shipped into the District. By such inspection the inspector was able to obtain valuable information in the producing, handling, and storing of milk. These inspections place the inspector in possession of data which is absolutely necessary if the score card is to be considered reliable. It also furnishes the department with useful information when a high bacterial count is found in milk produced on the farm and a notice of hearing is served.

A comparative statement showing the number and location of dairy farms from which milk is sold in the District of Columbia, the number of cattle on such farms, and the frequency of farm inspections, for the fiscal year 1918-19, is submitted (p. 24).

Tuberculosis and tuberculin testing.—The tuberculin testing of cattle on dairy farms producing milk for the District of Columbia has been carefully watched and has given results. There were reported as being officially tested during the year 15,242 cattle on farms producing milk for sale in the District. Of the cattle reported, 14,031 passed, 1,161 reacted, and 50 were regarded as suspicious. The percentage of tuberculous animals found increased from 3.6 to 7.9 per cent, due to importing new cows on dairy farms and not tuberculin testing cows on the dairy farms annually, and the opening of new territory for the production of milk for the District.

Dairies.—The inspection of dairies in the District has been given a very close supervision and has resulted in much improvement. A bacteriological examination of the milk received and sold by the dairies, together with a sanitary survey of all the dairies in the District, was made in detail. By inaugurating this method the department obtained data whereby the dairymen could be shown the advantage of systematic collection of samples for bacteriological examination and that indiscriminate collection of such samples is practically worthless. The use of milk powder by various dairies has been closely watched and reliable data relative thereto has been obtained.

Pasteurization and grading.—The close supervision in the production of milk, on the farm, on its arrival in the District, and as it is delivered to the consumer, has resulted in a more wholesome product. The results obtained from the examination of specimens of milk sold in the District as pasteurized milk indicate very clearly that the pasteurization of milk should be under control of the District government, and I so recommend; and further, that all milk sold here be required to be labeled as of a specified grade; such grade to be established by law.

Milk cans.—Approximately 40,131 milk cans being returned to producers were examined during the year. Of this number 897 were tagged so as to notify the owner that such cans were not suitable for the purpose for which they were being used. This tagging resulted in the discarding of these cans for shipping milk, except in one instance when a fine of \$25 was imposed for not complying with such order.

Inspection of restaurants, soft drink establishments, groceries, markets, and other places where foods are prepared for sale and sold.—The recent epidemic of influenza in the District and the enforcement of the regulation to govern the common use of drinking cups and the

use of certain table articles necessitated close supervision of such establishments, which could only be accomplished by systematic day and night inspection. These inspections caused radical changes in the sanitary methods of the lunch rooms, and soft drink establishments of the city. This year as in the preceding year, no restaurant was granted a license by the health department until the applicant had placed premises in a proper sanitary condition.

On account of the increased population of the city, the volume of foodstuffs handled by the commission houses increased to such an extent that two inspectors were stationed in this section where one was formerly used. By careful examination of all foodstuffs received and sent out from the commission houses, a better grade of foods, especially meats, were obtained by the public. The butchers selling inferior meats, styled "buzzard butchers" of previous years, have been eliminated.

The number of grocery store inspections have increased this year due to an inspector assigned to this work exclusively. Aside from the regular inspection of the grocery store, the tradesman was shown the most efficient manner of handling and displaying the foodstuffs with the least possible danger of contamination. The percentage of prosecutions referred to the District branch of the police court, for places of this character, increased 8.10 per cent over the year 1918.

Inspection of slaughterhouses.—There are 15 slaughter houses in the District, and they were inspected 64 times. At the time of slaughter 188 cattle, 39 sheep, 70 hogs, and 105 calves were inspected. The carcasses of 12 cattle were found unfit for food and were denatured with oil. It is recommended that all animals slaughtered in the District for food be inspected and passed before the carcasses are permitted to be sold for food.

Communicable diseases of animals.—Dogs to the number of 208 were reported to the health department as rabid, and were examined by the department veterinarians. All cases reported by members of the police department of persons who were found to have been bitten by dogs were acted upon.

Recommendations.—I recommend that regulations for the government of dairies and dairy farms, section 14b, be again recommended to the commissioners as follows: On and after July 1, 1920, all cattle on any dairy farm on which milk is produced for sale in the District shall be free from tuberculosis, as demonstrated by the application of an official tuberculin test, the test to be applied once each year or as often as the health officer may deem it necessary.

It is recommended that a regulation be made requiring all swine brought into the District for breeding purposes or slaughter must be accompanied by a health certificate issued by an official veterinarian stating that they are free from all infectious or communicable diseases.

It is further recommended that the regulations be amended so as to provide that no milk or cream brought or sent into the District for sale or manufacture, or be sold, stored, held for sale, or offered for sale in this jurisdiction unless said milk or cream be kept at a temperature not exceeding 50° F., and that no utensils used to receive the milk as drawn from the udder of the cows shall have an uncovered opening at the top exceeding 7 inches in diameter.

It is recommended that section 12a of an ordinance to prevent the sale of unwholesome food in the District be amended so as to provide that no market, store, hotel, or stall where food is offered for sale and sold shall be established, maintained, or continued without a certificate from the health officer that the premises are in a sanitary condition and suited to the conduct of such business.

It is recommended that an ordinance be made requiring the employees of establishments where food is prepared and offered for sale and sold to pass a medical examination before being employed.

Recommendation is also made that the manager of every cold-storage plant in the District be required to keep a record, accessible to the health department, of the movement of perishable food products into and out of his plant, and be allowed to hold such food only for a specific period of time.

It is further recommended that all dealers whether in inclosed or uninclosed markets, stores, or stands where meats, fruits, or other foods are offered for sale, be required to properly protect such foods from flies, dust, and insects.

It is recommended that a special fund be apportioned solely for the purpose of purchasing food samples for examination by the chemical laboratory.

R. R. ASHWORTH,
Chief Food Inspector.

APPENDIX C.

REPORT OF CHEMIST.

JULY 15, 1919.

Dr. WILLIAM C. FOWLER,
Health Officer, District of Columbia.

SIR: I have the honor to submit the following report of the work performed in the chemical laboratory during the fiscal year 1919.

During the year there was examined a total of 9,123 samples, as follows:

TABLE I.

Health department, examinations for:	
Drugs.....	3
Foods.....	8,928
Water.....	92
Miscellaneous.....	67
	9,090
Police department, examinations for.....	30
Coroner, examinations for.....	3
	33
	9,123

A detailed tabular statement of the above articles, together with a similar statement for the fiscal year 1918, appears on page 74.

MILK AND CREAM.

The following tables present the facts concerning the collection of milk and cream samples, results of analyses, and results of prosecutions during the fiscal year 1919:

TABLE II.—*Milk: Sources of samples collected, the number from each source, and the percentage from each source below standard during the fiscal year 1919.*

Source.	Number collected. ¹	Per cent of total collections.	Below 3½ per cent butter fat.	3 per cent and below.
District of Columbia dairymen.....	685	8.25	13.28	1.16
Stores, lunch rooms, etc.....	567	6.82	39.68	23.80
Wagons from—				
Maryland.....	1,024	12.33	21.09	6.64
Virginia.....	910	10.96	16.15	2.74
Union Station, from Maryland farms.....	1,992	23.99	18.79	3.71
Stations, from Virginia farms.....	3,070	36.98	17.06	2.86
Union Station, from other States.....	55	.67	10.90	1.84
Total.....	8,303			

¹ Does not include 61 samples of milk used for experimental purposes, examined for preservatives or sediment, or illegally shipped into the District of Columbia.

TABLE III.—*Cream: Places where samples were collected, the percentage from each source of those found below standard and the percentage from each source of those containing 18 per cent and less of butter fat during the fiscal year 1919.*

Source.	Number collected. ¹	Per cent of total collections.	Below 20 per cent fat.	Below 18 per cent fat.
District of Columbia dairymen.....	11	4.23	90.90	63.63
Stores, lunch rooms, etc.....	4	1.54	100.00	75.00
Wagons from—				
Maryland.....	25	9.61	76.00	52.00
Virginia.....	76	29.23	60.52	21.05
Union Station, from Maryland.....	58	22.30	58.62	31.03
Stations, from Virginia farms.....	84	32.39	48.33	22.61
Union Station, from other States.....	2	.79	50.00	50.00
Total.....	260			

¹ Does not include 13 samples of cream examined for purposes other than the determination of fat content.TABLE IV.—*Milk and cream: Percentages containing less than the legally required amount of butter fat and the percentage of milk containing added water, annually during the 5 fiscal years ending 1919.*

Fiscal year.	Cream containing less than 20 per cent butter fat.	Milk containing less than 3½ per cent butter fat.	Milk containing added water.
1915.....	57.73	7.71	0.76
1916.....	61.39	8.52	1.22
1917.....	64.09	10.63	1.50
1918.....	68.09	18.02	1.57
1919.....	59.61	19.06	.61

TABLE V.—*Prosecutions for the sale of milk below standard, milk containing added water, milk containing foreign matter, and cream below standard in the District of Columbia, during the fiscal year 1919.*

Sources of samples.	Prosecu- tions.	Results.			Pending June 30, 1919.
		Not- prossed.	Tried.		
			Personal bonds.	Fines or forfeitures.	
Resident milk dealers.....	5		(5)	\$410	
Stores, lunch rooms, etc.....	18	2	(16)	405	
By rail from—					
Maryland.....	25		(15)	205	10
Virginia.....	27		(6)	55	21
By wagon from—					
Maryland.....	23		(18)	195	5
Virginia.....	7		(2)	25	4
Total.....	105	2	1	(62) 1,295	40

NOTE.—Action was suspended in 92 cases during the year.

It will be noted that there has been a decided decrease in the percentage of cream samples containing less than 20 per cent of butter fat. On the other hand, the percentage of milk containing less than 3½ per cent of butter fat continued to increase during the fiscal year

1919. While the continued introduction of Holsteins into the dairy herds supplying this District is partially responsible for this latter condition, it is undoubtedly true that the unusually large number of samples of milk from lunch rooms analyzed during the year is the chief factor in this increase. Owing to carelessness or indifference on the part of lunch room attendants, a larger proportion of milk sold by lunch rooms falls below our legal standard than that from any other source.

The marked decrease in the percentage of milk containing added water is one of the most gratifying features of the year's work. So far as available records indicate, a smaller percentage of milk was found containing added water during the past fiscal year than during any previous year in the history of this laboratory. The prompt and more efficient handling of these cases in the courts during the past year has apparently had a most salutary effect.

WATER.

During the year 90 samples of water were subjected to a sanitary chemical analysis. The results are tabulated below.

TABLE VI.—*Water.*

Sources.	Total samples examined.	Good.	Suspicious.	Condemned.
Dairy farms.....	6	2	.....	4
Private wells.....	53	31	6	16
Public schools.....	1	1	.....	.....
Public wells.....	19	11	4	4
Tap water.....	8	7	.....	1
Bottled waters.....	3	.....	.....	3
Total.....	90	52	10	28

MISCELLANEOUS SAMPLES.

Air.—During the year the question of the effect of gas-heated appliances on the air of lunch room and restaurant kitchens was taken up. Samples of air were collected and analyzed to determine the proportion of carbon monoxide present. In the air from one kitchen carbon monoxide was found in proportions from 672 to 1,024 parts per million. Conditions here were very bad. The proprietor remedied matters by installing an efficient ventilating system. In the air of another kitchen carbon monoxide to the extent of 888 parts per million was found. This condition also was corrected.

Butter.—Of the 38 samples of butter examined, 27 were found to be legal, 4 were oleomargarine, 6 were process butter, and 1 was deficient in fat and contained excess water.

Cheese.—Forty-five samples of American or Cheddar cheese were analyzed. Of these 42 were free from adulteration, while 3 were deficient in fat.

Jelly.—Of the 11 samples of jellies and jams examined, 10 were legal, while 1 was misbranded because of failure to label the presence of glucose. Action was suspended in this case as the sample was the last of an old lot.

Olive oil.—Because of the difficulty in importing olive oil, 34 samples of this product were analyzed. All of the samples proved to be genuine olive oil, but 1 sample was found to be rancid. Action was suspended in this case when the vendor agreed to withdraw his stock from sale.

Oysters.—Fifty-one samples of oysters were submitted to chemical analysis during the year in order to determine whether added water was present. Of these, 38 were found to be free from added water, 5 were classed as suspicious, while 8 contained added water. This is a decided improvement over the past fiscal year. Of the eight cases of adulteration, a fine of \$25 was assessed in one case, a nolle prosequi was entered in another, while action was suspended in the remaining cases.

Pepper.—All of the 44 samples of pepper examined during the year were found to be legal.

Soft drinks.—Because of the sugar shortage and the use of sugar substitutes, 35 samples of soft drinks were analyzed. Of these 13 were legal, while 22 were misbranded. The violation in all cases consisted in failure to properly label the product. Because of the technical nature of the misbranding, action was suspended in these cases after the department's attitude had been clearly explained to the manufacturers at the hearings which were held.

Vinegar.—Of the 35 samples of vinegar analyzed, 22 were found to be illegal. The violations consisted in the sale of colored distilled vinegar as cider vinegar, deficiency in acetic acid strength, and failure to declare color. As the adulterated product was distributed to the retailers by one wholesaler, samples were purchased from the jobber and were found on analysis to be grossly adulterated. Action was brought against the wholesaler, and the court imposed a fine of \$50. Action was suspended in the cases against the retailers.

Other miscellaneous samples.—Samples of molasses, brine, ice, fertilizer, stone dust, Reif's Special, ginger snaps, Gadine Cordial, Orrine No. 1, Orrine No. 2, prunes, peanut butter, meat, chicken, maple sirup, and sausage were included among the miscellaneous samples examined during the year.

Examinations for the police department.—Examinations for blood stains: Five articles of clothing and an iron pipe were submitted for examination. No blood stains were found.

Examinations for poisons or glass: One sample each of ice cream, smoked sausage, corn flakes, candy, and bread, suspected to contain glass, were submitted. Several pieces of broken glass were found in the corn flakes. The candy contained a small quantity of sand.

No poisonous substance was found in any of the four samples submitted for analysis to determine whether poisons were present.

Examinations for alcoholic content: The samples under this head included one sample suspected to be beer, which was found to contain 1.74 per cent alcohol by volume; one sample of cider containing 6.80 per cent alcohol by volume; two liquids containing 24.15 per cent and 23.67 per cent by volume of alcohol, respectively; and two samples of wine containing, respectively, 17.05 per cent and 10.96 per cent alcohol by volume. These cases are pending.

Examinations in re violations of the pharmacy act: One sample labeled "Methyl Salicylate," sold by a local druggist, was found on analysis to be liquefied phenol, U. S. P. This case is pending.

Analysis of "Corbin's Wonderful Rheumatism Remedy" showed it to be a hydroalcoholic liquid containing a slight amount of resin guaiac in solution. The vendor was charged with compounding a medicinal preparation without being a registered pharmacist. This case was dropped by the corporation counsel after the defendant had promised to cease manufacturing this product.

Other samples submitted by the police department: These included two samples of Potomac water from the vicinity of the gas works. One sample contained about 5 per cent of gas tar, while the other was practically free from same. Action has been suspended in this case. One sample of liquid from the waste pipe of the gas works was found to contain waste products of gas manufacture. Two samples of medicine submitted were found to consist, respectively, of capsules of quinine hydrochloride, and fluid extract of ergot. The results of analysis of these samples will be used as evidence in a case of carnal knowledge. Two samples of so-called medicated alcohol were found on analysis to consist of denatured alcohol, containing methyl or wood alcohol. The vendor was charged with failing to label the product properly and the court imposed a fine of \$50.

Time consumed on police department work.—During the fiscal year 1919 the chemist spent 37 days, or 12.3 per cent of his working time for the year, on analytical and court work for the police department.

M. A. POZEN, B. S., PHAR. D.,

Chemist.

APPENDIX D.

REPORT OF SEROLOGIST.

JULY 1, 1919.

DR. WILLIAM C. FOWLER,
Health Officer, District of Columbia.

SIR: I have the honor to submit the following report relative to the activities of the biological laboratories during the fiscal year 1919, during which time 19,366 specimens were examined and reported upon.

BACTERIOLOGICAL LABORATORY.

Diphtheria.—Specimens submitted for the diagnosis of diphtheria to the number of 12,767 have been examined during the fiscal year. During the corresponding period of last year 15,675 cultures were examined. This larger number of cultures submitted was due to outbreaks of diphtheria in several of the public schools. During this year in only three of the graded schools did this disease assume serious proportions, necessitating the taking of cultures from the entire student body. The foci of infection was thus detected and isolated. Of the 656 primary positive cultures examined, 202 were from carrier and 454 from clinical cases.

In the future the department will recognize the positive findings from the laboratory as the report of a case and upon a report of the attending physician that the clinical symptoms have subsided will take the responsibility of culturing the patient for release from quarantine. I would most strongly urge that the health officer issue orders to the effect that no diphtheria patient be released from quarantine until two successive negative cultures have been taken with at least a 36-hour interval between the inoculating of the cultures.

Tuberculosis.—There were 1,392 specimens of sputum submitted to the laboratory during the past year from suspected cases of tuberculosis, of which number 295 were found to contain the tubercle bacillus. This is surprisingly few in consideration of the population of nearly half a million people and their living conditions during the emergency of the war. Anything which the department could do to induce the physicians to send specimens of sputum to the laboratory for diagnosis, would be a big step forward in the detection and control of the disease as with the concentration method of examination in use here, a conservative estimate would be that at least 5 per cent more positive cases would be detected than is done by the usual routine method of straight-smear examination.

Typhoid fever.—The laboratory has examined and reported upon 483 specimens of blood sent in for the Widal reaction, of which 43 tested positively. From 16 specimens of feces and urine submitted the *B. typhosus* was present in 7. Four of these were from the same patient.

Malaria.—Blood smears numbering 219 were sent to the laboratory to determine the presence of the plasmodium of malaria. In only two instances was malaria demonstrated.

Bathing pools.—Analyses of the water in the various bathing pools have been made at regular intervals during the year. The department has secured the cooperation of a majority of the persons responsible for the cleanliness of these pools, with the result that there has been considerable improvement as evinced by a lowered bacterial content.

Wells and water supplies.—Bacteriological examinations have been made of the several public wells and, at the request of persons interested, of many private wells, springs, etc., results of which have been forwarded to you from time to time in special reports.

Ice cream.—Samples of the various ice creams manufactured and sold in the District have been collected and analyzed as a check upon the cleanliness thereof from a bacteriological standpoint. The results of these tests have been reported to you. Close watch will be kept on this product, as it forms an important article of diet, especially during the summer months.

Milk and cream.—In this as in previous years samples of the products of the various dairies as delivered to the customer have been collected and analyzed. In addition complete surveys of several dairies have been made. Such a survey entails the collection of three different samples from each shipper supplying the plant and three samples from each of the many steps in the process of pasteurization as the milk goes through the plants. The results have been most interesting and instructive both to this department and to the dairymen and have, I think, been the means of educating the dealers to the realization that absolute cleanliness is essential in the production of pure and wholesome milk. Detailed records of these surveys have been transmitted to you by the bacteriologist as they have been completed. This work will be continued. There have been collected and tested by the inoculation method 64 samples of milk to determine the presence of the B. tuberculosis. One of these was proven positive with the result that after having the herd tuberculin tested, nearly two-thirds were proven to be suffering from bovine tuberculosis. Samples will be collected as per the requests of the chief food inspector when suspicious herds come under his observation.

Special investigations.—Bacteriological analyses have been made of samples of canned foods, ice, soda fountain flavoring sirups, and other miscellaneous items during the year and the results conveyed to you in the form of special reports.

The bacteriologist and the chemist collaborated on an investigation into the relative efficacy of several methods of disinfection of rooms. This work was done both on a laboratory and practical scale and has given the department information of much value.

SEROLOGICAL LABORATORY.

The physicians are rapidly becoming acquainted with the fact that the Wassermann reaction is being performed by the department and there has been submitted 612 specimens of blood for diagnosis during the year. Of these 104 were positive and 7 could not be tested because of improper preparation or anticomplementary action. There should be a big increase in the number of specimens sent in during the coming year because of the national offensive against venereal diseases. The effects have already made themselves felt through the activities of the clinic maintained by this department.

Diagnosis of gonorrhea.—There have been 432 specimens examined for the detection of the *Micrococcus gonorrhæ* during the year. Of this number 65 were positive. In two instances the gonococcus has been demonstrated in smears from the eyes of the new born.

The system worked out and put into execution for reporting on the Wassermann reaction by number has proven highly satisfactory.

Meningitis.—There have been examined 98 cultures made from patients suffering from cerebrospinal meningitis or from persons coming in contact with such patients. The meningococcus has not been isolated in any instance.

Pneumococcus typing.—The laboratory is prepared to examine transudates and exudates from persons having pneumonia to determine the type of the pneumococcus and early in the winter the physicians were notified to that effect. The technic of Cole is used. Only nine specimens were received and typed.

Diphtheria antitoxin.—Sufficient diphtheria antitoxin is on hand to last through the ordinary demand of two years. The last lot, precipitated and finally tested on December 29, 1918, will remain potent for a period of two years. During this fiscal year there have been dispensed upon the application of physicians 41 syringes of 5,000 units each and 97 syringes containing 1,000 units.

Typhoid vaccine.—Fresh typhoid vaccine to the amount of 12,000 immunizing treatments have been prepared, standardized, and tested for sterility and potency according to the requirements of the United States Public Health Service. A great many persons have availed themselves of the opportunity and have been immunized by the medical inspectors of the department.

Appended is a table showing in numerical detail the work of the laboratories during the fiscal year:

BACTERIOLOGICAL LABORATORY.

	July 1 to Dec. 31, 1918.			Jan. 1 to June 30, 1919.			Grand total.
	Positive.	Negative.	Total.	Positive.	Negative.	Total.	
Primary diphtheria.....	172	5,319	5,491	484	4,820	5,304	10,795
Secondary diphtheria.....	136	324	460	599	913	1,512	1,972
Sputum for tuberculosis.....	118	542	660	177	555	732	1,392
Blood for Widal.....	34	272	306	9	168	177	483
Urine and feces for typhoid.....		4	4	3	9	12	16
Blood for malaria.....	2	152	154		65	65	219
Milk and cream.....			276			1,754	2,030
Water—wells, etc.....			31			213	244
Swimming pools, etc.....			107			151	258
Milk for tuberculosis.....						64	64
Miscellaneous.....			409			333	742
Total.....							18,215

SEROLOGICAL LABORATORY.

Blood for Wassermann.....	31	118	149	73	390	463	612
Smears for gonococcus.....	19	165	184	46	202	248	432
Cultures for meningococcus.....		44	44		54	54	98
Pneumococcus typing.....						9	9
Total.....							1,151

Respectfully,

W. F. LONDON,
Serologist.

APPENDIX E.

REPORT OF CHIEF SANITARY INSPECTOR.

JULY 9, 1919.

Dr. WILLIAM C. FOWLER,
Health Officer, District of Columbia.

DEAR SIR: I have the honor to submit the annual report relative to the operations of the bureau of sanitary inspection during the fiscal year 1919. Tables showing the work done during the year named appear on pages 69 and 70.

Work done.—The following is a summary of the work done:

Complaints acted upon.....	8, 883
Inspections on complaint.....	12, 051
Reinspections.....	18, 806
Official calls other than calls made for the service of a notice outside of assigned inspection districts.....	20, 896
Notices served outside of assigned inspection district.....	3, 182
	<hr/> 54, 935 <hr/>
Number of inspections and character of place inspected of which no complaint was made and not included in the inspections on complaint:	
Baby farms.....	26
Baking establishments.....	14
Barber shops.....	1, 554
Cemeteries.....	12
Confectionery.....	5
Dumps.....	81
Garbage plant.....	21
Hospitals.....	63
House-to-house.....	8, 778
Lodging and tenements.....	180
Laundries.....	1, 783
Printing offices.....	134
Privies.....	2, 191
Public baths.....	17
Playgrounds.....	38
Public buildings.....	53
Sewage-disposal systems.....	106
Stables.....	1, 277
Schools.....	500
Tailor shops.....	367
Theaters.....	127
Undertaking establishments.....	11
Unclassified.....	254
Total.....	<hr/> 17, 592 <hr/>

Violations of the law and regulations for the prevention and abatement of nuisances were reported in 12,158 instances. Action was taken to correct the condition found, and 11,832 were corrected prior to the close of the fiscal year. The difference—326—represents the number of cases for which notices were outstanding. There were 33 complaints outstanding at the close of the year.

Prosecution.—There were 33 cases pending in the police court at the end of the last fiscal year. Informations were filed in the police court against 676 persons, charging violations of the laws and regulations relating to the public health, exclusive of the smoke law. These cases were disposed of as follows: Nolle prosequi was entered in 597 cases; personal bonds were taken in 6 cases; collateral forfeited in 47 cases; defendants acquitted in 3 cases; fines imposed in 2 cases. There were 54 cases pending at the close of the fiscal year. The amount of fines and collateral was \$267. The same system prevailed this year as has prevailed for several previous years, the assistant corporation counsel entering a nolle prosequi whenever the nuisances for the maintenance of which the defendants were charged had been abated before the cases were called to trial, although not abated until after the cases had been submitted for prosecution. Inspectors time spent in the police court amounted to 119 working days.

Abatement of nuisances under the assessment system.—Under the assessment system 311 notices were served on nonresident owners for the abatement of nuisances on property owned by them in the District of Columbia. In all but 9 cases these nuisances were abated by the owners without the necessity of further action by the commissioners. In 9 cases in which the abatement was not done by the owners the District caused the necessary work to be done at a cost of \$221.88, which was assessed as a tax against the property upon which the nuisances had existed.

Printing offices.—During the year 134 inspections were made of printing offices, an average of 0.9 time for each office. Composing rooms received particular attention.

Stables, barber shops, laundries, privies, fowl and pigeon houses, and sewage-disposal systems.—Stables, barber shops, laundries, privies, fowl and pigeon houses, and sewage-disposal systems were registered during the year as shown in the table on page 27.

Stables.—During the year 1,277 inspections were made and 177 nuisances discovered. The average frequency of an inspection of each stable was 1.10 times.

Barber shops.—During the year 1,554 inspections of barber shops were made, an average frequency of 2.44 times per each barber shop.

Laundries.—Inspections of laundries during the year numbered 1,783. The average frequency of inspection of each laundry was 0.84 time.

Privies.—On June 30, 1919, there were registered in this District approximately 2,706 privies, of which, however, 108 were in the city of Washington or in the suburbs adjacent thereto; 92 privies were abolished on notices served by the department, and 10 for other causes. There were 2,191 inspections of privies, equivalent to the inspection of each privy 0.82 time during the year. In 15 places in which privies were located upon land belonging to nonresidents the inspector of plumbing, engineer department, was requested to have the necessary sewer and water connections made under the assessment system, so that the box privies might be removed. At the close of the year 8 of these premises had been so connected. Twenty permits for the maintenance of privies temporarily during building operations or other structural work were issued.

Weeds.—Notices to the number of 124 were served during the year under the provisions of the weed law, of which 11 were notices under the assessment system. In each instance the nonresident owner caused the weeds to be cut and removed from the property. It is physically impossible for the department to enforce this law in a substantial manner with the present limited inspection force at its command.

Smoke inspection.—A statement showing the work of the sanitary inspector detailed to enforce the smoke law appears on page 27.

Contagious-disease service.—The time consumed by sanitary inspectors on duty in the contagious-disease service during the year amounted to 168 days.

Registration of vital statistics.—During the year 105 cases were investigated by sanitary inspectors in connection with the registration of births, involving the expenditure of approximately 6 working days.

Podiatry.—In May, 1918, the bureau of sanitary inspection was charged with the enforcement of the act to regulate the practice of podiatry in the District of Columbia, approved May 23, 1918. All persons practicing podiatry in the District have been required to comply with the provisions of this act. A thorough inspection also has been made of all podiatry establishments.

Activities.—Referring to the work done by this bureau, as shown in the statement of inspections appearing on page 70 of this report, the following increase in the work this year over that done during the fiscal year 1918 are noted: Barber shops, increase in inspections, 328; hospitals and asylums, 23; house-to-house, or inspections made on the initiative of the inspector to discover nuisances, 4,152; laundries, 349; privies, 131; public buildings, 11; stables, 400; tailor shops, 209; unclassified, 49; total, 5,652. This increase in work was performed in spite of the fact that the entire inspection force assisted the contagious-disease service for a period of six weeks during the months of October, 1918, and January, 1919, during the influenza epidemic. It would have been impossible for the force to accomplish this work during the regular hours of employment, and the extra work required 291 working days overtime. This overtime was done willingly and without hope of compensation.

Eight-hour female labor law.—The following is a summary of the work performed in the eight-hour female labor law service:

Complaints acted upon.....	84
Inspections on complaint.....	79
Official calls made.....	580
Number of inspections made at various kinds of establishments:	
Manufacturing.....	1, 624
Mechanical.....	927
Mercantile.....	7, 003
Laundries.....	825
Restaurants.....	2, 376
Telegraph and telephone.....	154
Express and transportation.....	191
Hotels.....	510
Tailor shops.....	16
Miscellaneous.....	38

There were registered and classified 1,969 establishments coming within the purview of the law, as follows:

Hotels.....	52
Laundries.....	142
Mechanical.....	159
Manufacturing.....	294
Mercantile.....	1,068
Restaurants.....	216
Telephone and telegraph.....	13
Express and transportation.....	25

At the close of the preceding fiscal year one case was pending in the police court for violation of the law regulating the hours of labor of females. There were reported during the year and referred to the corporation counsel for prosecution 20 violations of this law. These cases were disposed of as follows: Two cases were not-prossed; in 7 cases personal bonds were taken; 1 case acquitted; collateral forfeited in 8 cases; in 2 cases fines were imposed, and 1 case was outstanding at the close of the fiscal year. The amount of fines and forfeitures was \$240.

Recommendations.—I renew my recommendations that the collection and disposal of manure be under the supervision of the District authorities; that the weed law be either repealed or some provision made that will enable the health department to enforce it in a substantial manner; that the act for the prevention of smoke and for other purposes, approved February 2, 1899, be amended so as to include railway locomotives, steamboats, and portable engines; and that regulations be promulgated looking toward the supervision of the baby farms and other places where children are being kept for pay.

Respectfully submitted.

C. R. HOLMAN,
Chief Sanitary Inspector.

APPENDIX F.

REPORTS OF DIRECTORS OF VENEREAL DISEASE AND TUBERCULOSIS CLINICS.

VENEREAL DISEASE CLINIC.

JULY 15, 1919.

Dr. WILLIAM C. FOWLER,
Health Officer, Washington, D. C.

SIR: The following is a report of the work done in the social hygiene division of the health department clinic for the period from November 21, 1918 (when the clinic was opened for patients), to June 30, 1919:

New cases.....	561
Revisits.....	792
Total attendance.....	<u>1,353</u>
Wassermann examinations.....	176
Salvarsan injections.....	267

The number of cases of syphilis treated was 116; gonorrhoea, 203; miscellaneous genito-urinary conditions, 99. Persons to the number of 143 were examined for suspected venereal disease, which I think shows the great value of the educational campaign now being waged against venereal diseases.

A feature of the work that we have tried to emphasize is education in regard to prophylaxis. Patients are told of the seriousness of venereal diseases, how they are acquired and how prevented. In addition, literature on the subject is given most cases. Female cases are followed up by the nurse wherever necessary, home conditions studied and corrected, and the patients urged to attend regularly and continue treatment until well.

Respectfully,

WM. G. YOUNG,
Director Venereal Disease Clinic.

TUBERCULOSIS CLINIC.

The tuberculosis division of the health department clinic opened for patients on September 10, 1918. There was a large daily attendance of patients from the date of opening. This was due in part to the closing of the tuberculosis dispensary formerly conducted by the Association for the Prevention of Tuberculosis of the District of Columbia, and the transfer of all those patients to the health department clinic. Our record during the year, however, affords ample proof of the need which existed in Washington for a clinic of this kind. The year's record speaks also for the loyalty and devotion to duty shown by the attending nurses and physicians who have labored so faithfully to place the clinic on a high plane of professional efficiency.

The objects of the clinic are three-fold: First, to make an accurate diagnosis of the chest conditions in all cases presenting themselves for examination, irrespective of their financial status; second, to treat patients in suitable condition for clinic treatment, or if not suitable advising them where to obtain suitable care and treatment—patients who are amply able to pay for medical attention are not given treatment, but are advised to consult a private physician; third, to prevent the spread of tuberculosis by instructing the patient relative to sanitary prophylactic measures and giving instructive nursing visits at the homes of infected patients.

Medical work of clinic.—Since the date of opening, a total of 619 patients have been treated. Of this number, 298 were positive, 310 negative, and 11 diagnoses pending. There were 81 children of school age diagnosed as positive cases of tuberculosis and transferred to the open-air schools. These children remain under the supervision of the clinic, and a marked improvement is noted in the general condition of this group under the open-air school régime. There were 46 patients sent to the Tuberculosis Hospital from the clinic, 13 left the city, 20 deaths, and the remainder are still under the observation and treatment of the clinic.

Social service work of the clinic.—The three graduate nurses connected with the clinic have devoted the greater portion of their time to instructive visits to homes of patients. On occasions when it appears necessary nursing visits have been made to patients who are unable to pay a private nurse. During the year there were 504 patients admitted by this department. There were 5,482 instructive visits to patients' homes and 344 nursing visits made.

X-ray department.—The X-ray laboratory has been of great aid in making a diagnosis, particularly in children. The extent to which the attending physicians availed themselves of this laboratory is shown by the fact that 160 chest cases passed through the X-ray department during the year.

Report of medical work of health department clinic from Sept. 10, 1918, to June 30, 1919.

Patients classified as to color and sex:

White—	
Male.....	219
Female.....	169
Colored—	
Male.....	86
Female.....	145
Total.....	619
Negative cases.....	310
Pending cases.....	11
Positive cases (stage of disease):	
Incipient.....	78
Moderately advanced.....	131
Far advanced.....	89
Total.....	298

Positive cases classified as to age:

5 years and under.....	7
6 to 15 years.....	88
16 to 25 years.....	62
25 to 40 years.....	101
Over 40 years.....	40
Total.....	298

X-ray examinations:

For clinic.....	160
For fire and police departments.....	42
Total.....	202

Report of nurses social service work of health department clinic from Sept. 10, 1918, to June 30, 1919.

Patients discharged.....	41
Patients who have left city.....	12
Patients died.....	51
Patients remaining under treatment.....	400
Total patients.....	504
Instructive visits.....	5,482
Nursing visits.....	344
Total visits.....	5,826

W. D. TEWKSBURY, M. D.,
Medical Director.



APPENDIX G.

MISCELLANEOUS TABLES.

Work done by the sanitary inspection service during the fiscal year 1918-19, with reference to nature of nuisance and date of report.

	1918						1919						Total for 1918-19.	Total for 1917-18.
	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.		
Alleys, filthy.....	26	40	16	20	26	17	25	31	35	51	81	45	413	352
Areas.....	28	36	15	28	20	14	16	22	19	25	39	39	301	215
Cellars.....	33	33	21	22	24	14	16	10	19	26	42	24	284	295
Fowls.....	48	33	25	27	45	23	23	39	63	54	59	46	485	290
Lots:														
Filthy.....	15	62	21	9	19	12	37	16	37	67	124	40	459	286
Stagnant water.....	8	3	1	3					4	11	11	6	47	118
Manure accumulations.....	8	18	2	8	5	6	13	4	15	5	21	17	122	160
Manure receptacles.....	14	18	5	9	7	7	4	2	52	28	23	25	194	213
Plumbing, defective.....	28	33	24	34	27	15	15	19	15	15	18	27	270	236
Premises, unwholesome.....	52	43	35	50	37	34	22	26	44	29	55	68	495	455
Privies:														
Full.....	8	6	14	32	24	2	12	20	9	11	19	12	169	145
Leaky boxes.....	2	7	1	7	8		2	3			1	19	50	87
Unlawful.....	6	6	12	4	2		1	2	5	1		5	44	92
Roofs, leaky.....	25	22	46	41	42	49	46	15	20	25	49	37	417	241
Sewer connections.....	2	6		4			2	1	5	7	9	2	38	121
Sewers, obstructed.....	146	178	158	173	192	180	160	133	156	131	207	149	1,863	1,615
Sheds.....	68	89	31	31	64	30	57	103	149	124	120	89	955	1,090
Stables.....	14	11	5	4	28	12	14	11	23	17	22	16	177	83
Yards, filthy.....	189	247	110	165	247	156	213	286	404	338	470	262	3,087	2,847
Water-closets.....	145	103	89	173	146	96	151	106	142	133	183	114	1,581	2,193
Weeds.....	21	76	9	1							2	15	124	368
Unclassified.....	35	59	28	66	50	32	22	26	21	36	57	51	483	427

Number and character of inspections by the sanitary inspection service during the fiscal year 1919, with corresponding data for the preceding year.

	1917-18	1918-19
Inspections not on complaint:		
Baby farms.....	32	26
Baking establishments.....	122	14
Barber shops.....	1,226	1,554
Cemeteries.....	8	12
Confectionery.....		5
Dumps.....		81
Garbage plant.....		21
Hospitals.....	86	63
House-to-house.....	4,626	8,778
Lodging and tenements.....	152	180
Laundries.....	1,434	1,783
Printing offices.....	143	134
Privies.....	2,066	2,191
Public baths.....	2	17
Playground.....	25	38
Public buildings.....	64	53
Sewage disposal systems.....	152	106
Stables.....	877	1,277
Schools.....	487	500
Tailor shops.....	158	367
Theaters.....	131	127
Undertaking establishments.....	16	11
Unclassified inspections.....	303	254
Total.....	12,110	17,592
Inspections on complaint.....	12,550	12,051
Reinspections.....	19,878	18,806
Official calls.....	20,879	20,896
Notices served outside of assigned inspection district.....	3,570	3,182
Total.....	68,987	72,527

Systematic inspections made by the sanitary inspection service during the fiscal year ended June 30, 1919.

	1918						1919						Total for 1918-19.	Total for 1917-18.
	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.		
Baby farms.....	3				2	1		19			1		26	32
Baking establishments.....	2		2		1					3	6		14	122
Barber shops.....	84	102	30	57	160	145	153	213	163	43	59	345	1,554	1,226
Cemeteries.....		6		3				2				1	12	8
Confectionery.....	1	2	2											
Dumps.....	6	6			7	8	8	10	6	11	10	2	5	
Garbage plant.....	3	14	1		1								21	
Hospitals and asylums.....	9	6		10		1		21	11	5		1	63	86
House-to-house.....	290	372	262	362	797	669	797	975	1,413	1,037	1,455	349	8,778	4,626
Lodging and tenements.....	8	51	12	1	4	3	40	1	60				180	152
Laundries.....	120				577	69	118	13	514	264	34	74	1,783	1,434
Privies.....	188	322	86	298	520	85	101	95	94	150	120	132	2,191	2,066
Public baths.....	2		12		2			1					17	2
Public buildings.....								49	1	3			53	64
Playgrounds.....	6	11	1		2				14	6			38	25
Printing offices.....	5	3	1		2	1					17	105	134	143
Public schools.....	9	1	128		13	120	17	29	66	13	56	48	500	487
Sewage disposals.....	1	8	7	2			5	60	11	5	7		106	152
Stables.....	65	169	58	35	30	45	83	33	299	170	211	79	1,277	877
Tailor shops.....	6	4				3	79	1			203	71	367	158
Theaters.....	12	9	1		4	7		3		61	30		127	131
Undertaking establishments.....	5													
Unclassified.....	8	16	11	14	2	3	7	3	34	25	19	30	254	303

Marine products received, inspected, and condemned in the District of Columbia, municipal fish wharf, during the fiscal year ending June 30, 1919.

		Arrivals.	Inspections.	Condemnations.	
				By inspection.	Without request.
Bass.....	barrels..	743 $\frac{1}{2}$	738 $\frac{1}{2}$	.....	4 $\frac{1}{2}$
Bluefish.....	do.....	181 $\frac{1}{2}$	178 $\frac{1}{2}$	.....	1
Butterfish.....	do.....	1,547 $\frac{1}{2}$	1,433	14 $\frac{1}{2}$	33 $\frac{1}{2}$
Carp.....	single.....	22,218	20,442	219	38
Catfish.....	bunches.....	40,919	38,870	70	642
Croakers.....	barrels.....	4,064 $\frac{3}{4}$	2,869 $\frac{3}{4}$	6	48
Eels.....	bunches.....	2,980	2,730	16	5
Flounders.....	barrels.....	843 $\frac{3}{4}$	815 $\frac{1}{4}$	12	7 $\frac{1}{2}$
Herring.....	single.....	1,606,392	1,595,756	.....	69,715
Jacks.....	do.....	13,864	13,726	.....	62
Mackerel.....	barrels.....	1,757 $\frac{1}{2}$	1,582	.....	19 $\frac{1}{2}$
Mullets.....	bunches.....	4,353	4,091	.....	24
Perch.....	do.....	44,106	43,665	103	823
Pike.....	do.....	3,244	2,921	4	12
Rockfish.....	do.....	49,000	48,608	70	422
Shad.....	single.....	402,393	390,590	21	160
Trout.....	barrels.....	11,222 $\frac{3}{4}$	10,549	18 $\frac{1}{2}$	86
Whitings.....	do.....	1,847 $\frac{1}{2}$	1,663 $\frac{1}{2}$	11 $\frac{1}{2}$	35
Oysters.....	bushels.....	164,855	163,317	.....	115
Do.....	gallons.....	89,092	88,202	192	435 $\frac{1}{2}$
Clams.....	barrels.....	3,733	3,360	3	28
Crabs.....	do.....	2,512	2,382	7	147 $\frac{1}{2}$
Crab meat.....	gallons.....	19,526	17,574	81 $\frac{1}{2}$	177 $\frac{1}{2}$
Pollock.....	barrels.....	690	665	.....	38
Halibut.....	do.....	470 $\frac{1}{2}$	452 $\frac{3}{4}$	.....	2
Haddock.....	do.....	1,827	1,682	21	9
Soft crabs.....	boxes.....	850	809	5	18
Salmon.....	do.....	207	187	.....	1
Spots.....	barrels.....	425 $\frac{3}{4}$	383 $\frac{1}{2}$	23	35
Turtles.....	single.....	1,221	1,105	2	5
Codfish.....	barrels.....	628 $\frac{3}{4}$	595	8	6
Porgies.....	do.....	29 $\frac{1}{2}$	26 $\frac{1}{2}$	.....	1
Kingfish.....	do.....	10	10	.....	.....
Sturgeon.....	single.....	48	46	.....	.....
Menhaden.....	barrels.....	24	24	.....	.....
Salt herring.....	do.....	1,385	1,268	3	10
Hake.....	do.....	27	25	.....	.....
Hogfish.....	do.....	12 $\frac{1}{2}$	12 $\frac{1}{2}$	.....	.....
Labrador herring.....	do.....	1,619	1,480	.....	.....
Winter shad.....	do.....	202 $\frac{1}{2}$	194	1	3 $\frac{1}{2}$
Drumfish.....	do.....	14 $\frac{1}{2}$	1	.....	.....
Shrimp.....	do.....	84 $\frac{1}{2}$	81	2	1 $\frac{1}{2}$
Sheepshead.....	boxes.....	18	18	.....	.....
Tile fish.....	barrels.....	83 $\frac{3}{4}$	80 $\frac{1}{2}$	.....	.....
Lings.....	do.....	198	192	3	4 $\frac{1}{2}$
Smelts.....	boxes.....	418	405	.....	142
Criscoes.....	barrels.....	6	5	.....	.....
Scallops.....	gallons.....	125	120	.....	.....
Crappie.....	barrels.....	28	26	.....	.....
Grinnell.....	boxes.....	1	1	.....	.....
Tulibeas.....	do.....	5	4 $\frac{1}{2}$	.....	.....
Squid.....	do.....	3	3	.....	.....
Lobsters.....	single.....	25	25	.....	.....
Frogs.....	do.....	1,308	1,248	68	27
Watermelons.....	do.....	162,850	154,710	.....	3,733
Muskrats.....	do.....	461	440	.....	25

Food products condemned in the District of Columbia during the fiscal year ending June 30, 1919.

		Con- demned by request.	Con- demned without request.	Total.
Beef, corned.....	pounds.....	.....	132	132
Beef.....	do.....	1,065	1,587	2,652
Beef kidneys.....	do.....	.....	132	132
Tripe.....	do.....	.....	532	532
Lamb.....	do.....	2,217	2,409	4,626
Veal.....	do.....	.....	250	250
Pork.....	do.....	247	1,874	2,121

Food products condemned in the District of Columbia during the fiscal year ending June 30, 1919—Continued.

	Con- demned by request.	Con- demned without request.	Total.
Liver.....pounds..	57	1,733	1,790
Sausage.....do.....	520	770	1,290
Shoulder.....do.....		774	774
Ham.....do.....	200	766	966
Chitterling.....do.....	130	130	260
Pigs' feet.....do.....		1,320	1,320
Pig snout.....do.....	96	1,325	1,421
Chickens.....number..	1,755	1,789	3,544
Turkeys.....do.....	389	81	470
Frogs.....do.....	32	13	45
Squabs.....do.....	12		12
Keats.....do.....		10	10
Rabbits.....do.....	182	2,858	3,040
Apples.....bushels..	2,740	75	2,815
Peaches.....do.....	673	258	931
Plums.....do.....	64		64
Dried fruit.....pounds..	20		20
Oranges.....dozen....		467	467
Limes.....do.....	75		75
Lemons.....do.....		98	98
Figs.....do.....	10	8	18
Berries.....quarts....	308	960	1,268
Cherries.....do.....		4	4
Cantaloupes.....number..	41,408	1,489	42,897
Watermelons.....do.....	1	20	21
Olives.....gallons....	3		3
Grapefruit.....number..	96	25	121
Beets.....barrels....	14		14
Celery.....bunches....		2	2
Nut kernels.....gallons....		20	20
Radishes.....bunches....	127	33	160
Lettuce.....crates....	142	475	917
Cabbage.....number....	10,966	3,150	14,116
Eggplants.....do.....	35	1,046	1,081
Cucumbers.....baskets....	6	48	54
Honey dew melons.....number..		570	570
Spinach.....barrels....	1	325	326
Potatoes, Irish.....bushels..	3	226	229
Peas.....do.....	3	117	120
Beans.....do.....	77	1,044	1,121
Turnips.....do.....	2	326	328
Tomatoes.....do.....	22	2,576	2,598
Pears.....do.....		8	8
Onions.....do.....		12	12
Peppers.....dozen....	48	7,890	7,938
Crabs.....barrels....	1		1
Crab meat.....gallons....	189	489	678
Soft crabs.....dozen....	10		10
Corn.....do.....		111	111
Cheese.....pounds....		70	70
Eggs.....dozen....	1,839	128	1,967
Butter.....pounds....	20	30	50
Oleomargarine.....do.....	32		32
Fish.....do.....	4,740	8,788	13,528
Shrimp.....do.....	452	10	462
Lobsters.....do.....	111	12	123
Oysters.....gallons....	66	495	561
Scallops.....pounds....	5		5
Pickles.....do.....	800	162	962
Potatoes, sweet.....bushels..	25	23	48
Asparagus.....crates....		2	2
Carrots.....bunches....	300	80	380
Preserves.....pounds....	7	21	28
Tea.....do.....		28	28
Peanuts.....do.....		115	115
Prunes.....do.....		20	20
Oats.....bushels....		9,229	9,229
Corn flakes.....number....	1,800	50	1,850
Shredded wheat.....do.....		6	6
Flour.....barrels....		3	3
Rice.....pounds....		3,100	3,100
Salt.....barrels....		3	3
Allspice.....pounds....		245	245
Salad dressing.....number....		751	751
Soft drinks.....gallons....		706	706
Candy.....pounds....		97	97
Canned goods.....cans....		977	977

Pound report for fiscal year 1919.

Months.	Animals impounded.								Disposition.							
	Horses.	Mules.	Dogs.			Cats.			Grand total, dogs and cats.	Horses and mules redeemed.	Dogs.				Cats killed.	Total. ¹
			Captured.	Surrendered.	Total.	Captured.	Surrendered.	Total.			Killed.	Redeemed.	Sold.	Returned.		
1918.																
July.....			105	154	259	....	279	279	538	....	225	5	45	3	279	557
August.....	1	1	126	141	267	1	251	252	519	2	215	2	34	3	252	506
September.....			198	97	295	....	197	197	492	....	190	35	57	1	197	480
October.....			115	85	200	....	124	124	324	....	156	26	31	3	124	340
November.....			127	41	168	....	110	110	278	....	99	34	41	....	110	284
December.....			86	33	119	1	71	72	191	....	68	18	25	1	72	184
1919.																
January.....	3	....	126	42	168	11	56	67	235	3	109	29	30	....	67	235
February.....	1	....	163	39	202	4	69	73	275	1	117	48	39	1	73	278
March.....		....	171	91	262	....	161	161	423	....	167	41	60	....	161	429
April.....	2	....	213	75	288	1	242	243	531	2	179	54	47	2	243	525
May.....	3	....	154	58	212	....	267	267	479	3	107	24	86	....	267	484
June.....	3	....	214	93	307	....	304	304	611	3	223	36	31	....	304	594
On hand July 1, 1919.....																14
Total.....	13	1	1,798	949	2,747	18	2,131	2,149	4,896	14	1,855	352	526	14	2,149	4,910

128 dogs in pound July 1, 1918.

Money collected by the poundmaster during the fiscal year 1919.

Months.	Food.	Fees.	Sales.	Total.
1918.				
July.....	.....	\$10.00	\$3.50	\$41.50
August.....	\$0.25	8.00	29.00	37.25
September.....	.....	70.00	52.50	122.50
October.....	.....	52.00	24.50	76.50
November.....	.....	68.00	53.50	121.50
December.....	.....	36.00	33.50	69.50
1919.				
January.....	3.00	64.00	37.50	104.50
February.....	.....	98.00	48.00	146.00
March.....	.....	82.00	65.00	147.00
April.....	1.00	12.00	68.00	81.00
May.....	1.80	54.00	86.50	142.30
June.....	1.00	78.00	42.50	121.50
Total.....	7.05	732.00	572.00	1,311.05

Statement of work performed in the chemical laboratory during the fiscal years 1918 and 1919.

	Total.		Adulterated or misbranded.		Not adulterated or misbranded.	
	1918	1919	1918	1919	1918	1919
Air.....	15	11				
Alcohol, medicated ¹		2				
Apple jelly.....	1				1	
Asparagus, canned ¹		2				
Bee Brand insect powder ¹	1					
Bee Brand roach killer ¹	1					
Beef, ground.....	1					
Biscuit, oat meal, suspected to contain poison.....	1				1	
Blackberry jam, suspected to contain glass.....	1					
Blackberry wine ¹	1				1	
Braunshweiger malt extract ¹	1					
Bread.....	31				31	
Bread, net weight.....	11					
Bread, suspected to contain glass ¹		1				
Bread, Graham, suspected to contain glass.....	1					
Brine, from cold storage tank.....					1	
Butter.....	17	1				
Butter for experimental purposes.....		38	9	11	8	27
Butter, renovated, for experimental purposes.....		3				
Cake, suspected to contain glass.....	1					
Candy.....	77				1	
Candy, suspected to contain glass.....	25				77	
Do. ¹	9	1	1		24	
Candy, suspected to contain poison.....	1		2		7	1
Do. ¹	4					
Capsules ¹		1				
Capsule, suspected to contain poison ¹	1					
Carbon tetrachloride, for comparative purposes.....	1					
Cheese.....	1					
Cheese, suspected to contain glass ¹	52	45	1	3	51	42
Cherry flavor.....	3					
Cherry pepsin tonic ¹	1				1	
Do. ²	1					
Chicken.....	3					
Cider.....		2				
Do. ¹	3		2		1	
Cigar butt ¹		1				
Clothing ¹		1				
Coffee, suspected to contain poison ¹	3	5				
Corn flakes, suspected to contain glass.....	1					
Do. ¹		1				
Corned beef.....		1				
Corning liquid.....	2					
Cream.....	1				2	
Cream for experimental purposes.....	210	260	143	155	1	105
Cream, illegal shipments.....		1			67	
Creine de menthe ¹	38	12				
Damiana tonic ¹	1					
E. Z. tablets.....	1					
Fence picket, for blood stain ¹	2					
Fertilizer.....	1					
Fish.....		2				
Formaldehyde, solution of.....	1				1	
Fruits, dried.....	1					
Gadine cordial.....	30		23		7	
Gin, suspected to contain poison ¹		1				
Ginger ale.....	1					
Ginger ale, suspected to contain glass.....	1		1			
Ginger cakes, suspected to contain glass.....	1					
Ginger snaps, suspected to contain poison.....	4		1		3	
Ginger, tincture of.....		1				
"Golden Orange" beverage.....	1					
Gray fish, canned.....		1				
Hair grower, Mme. Walker's ¹		4		4		1
Hamburger.....	1					
Hamburger steak, suspected to contain glass.....	39		4		35	
Hominy cooked, suspected to contain glass.....	1					
Hotko ¹	1					
Human kidney, for poison ²		1				
Human liver, for poison ²		1				
Human stomach and contents ²		1				
Ice.....		1				
Ice, from cold storage tank.....	5	5	1	1	4	4
Ice, suspected to contain poison.....		9				
Ice cream.....	1					
Do. ¹	1				1	

¹ Examined for the police department.

² Examined for the purchasing officer.

³ Examined for the coroner.

Statement of work performed in the chemical laboratory during the fiscal years 1918 and 1919—Continued.

	Total.		Adulterated or misbranded.		Not adulterated or misbranded.	
	1918	1919	1918	1919	1918	1919
Ice cream, suspected to contain glass	1					
Do. ¹		1				
Iron bar, for blood stains ¹	1					
Jelly	3	11		1		10
Jelly, suspected to contain glass	1					
Knife, for bloodstains ¹	1					
Lard	71	1	5		66	1
Licresolis	1				1	
Liquid, from gas works ¹		1				
Liquid, suspected to be beer ¹	4	1				
Liquid, suspected to contain poison ¹	1					
Liquid, suspected to contain whisky ¹	11	2				
Magnesium citrate, solution of	1				1	
Mapleine	1				1	
Meal, rye, suspected to contain glass	1					
Meat, ground	1				1	
Meat, sausage		2				2
Meat, suspected to contain glass		1				
Medicine ¹		1				
"Methyl salicylate" ¹		1				
Milk	7,333	8,303	1,379	1,583	5,954	6,720
Milk, for acidity	23				23	
Milk, for experimental purposes	7	47				
Milk, illegal shipments	70	2				
Milk, preservatives in	3	3				3
Milk, sediment test		7				7
Milk, suspected to contain glass	1		1			
Milk, suspected to contain poison		2				
Milk, suspected to contain ultramarine blue	1		1			
Milk, evaporated	1	6		4	1	2
Milk, manufactured	6		6			
Milk, skimmed, condensed	1		1			
Molasses		2				2
Near Beer	24					
Do. ¹	12					
Oil, olive		34		1		33
Oil, olive, suspected to contain glass		1				1
O'Leary's raspberry cordial ¹	1					
Oleomargarine	14		4		10	
Do. ²	1					
Oleomargarine, for experimental purposes		1				
Oleomargarine, nut	34		2		32	
Do. ²	1				1	
Orange suspected to contain poison ¹		1				
Orrine No. 1		1				
Orrine No. 2		1				
Oysters	81	51	30	8	51	43
Paste ¹	1					
Peanut butter, suspected to contain glass	12	3	6		6	3
Pepper, ground		44				44
Pepto-mangan, suspected to contain poison ¹	1					
Pipe, iron, for bloodstains ¹		1				
Post toasties	1				1	
Powder	2					
Powder, suspected to contain poison ¹	1					
Prunes, suspected to contain preservatives		1				1
Pyrene	1					
Reif's special		1		1		
Rheumatism remedy, Corbin's ¹	3	1	3	1		
Salt, examined for arsenic	3					3
Salt, examined for glass	1					1
Sausage	15				15	
Sausage, green, examined for glass	1					1
Sausage, smoked, examined for glass	3	1			3	
Do. ¹		1				1
Scallops	2				2	
Soft drinks		35		22		13
Soft drinks, suspected to contain poison		1				1
"Sparkling" ¹	1					
Stone dust		1				
Sugar	21		1		20	
Sugar, brown	3				3	
Sugar, damaged by fire	5		4		1	
Sugar, examined for glass	1				1	
Do. ¹	2					
Sirup, maple		2				2

¹ Examined for the police department.² Examined for the corporation counsel.

Statement of work performed in the chemical laboratory during the fiscal years 1918 and 1919—Continued.

	Total.		Adulterated or misbranded.		Not adulterated or misbranded.	
	1918	1919	1918	1919	1918	1919
Tablets, examined for morphine ¹	1					
Tea.....	1				1	
Tomatoes, canned, examined for glass.....	2				2	
Vanilla, extract of.....	1		1			
Vinegar.....		35		21		14
Voodoo medicine ¹	1					
Washington crisps, examined for glass.....	1				1	
Water.....	112	79	41	24	71	55
Water, bottled.....	41	3	14	3	27	
Water, Potomac ¹		2				
Water, swimming pool.....		2				
Water, tap.....		8		1		
Wine, elderberry ¹		1				
Wine, grape ¹		1				
Total.....	8,563	9,123				

¹ Examined for the police department.

AVERAGE GRADES OF MILK DISTRIBUTED IN THE DISTRICT OF COLUMBIA DURING THE YEAR ENDING JUNE 30, 1919, ARRANGED ACCORDING TO NAMES OF DISTRIBUTORS.

For a statement of the method of determining these grades see United States Public Health Reports, volume 28, No. 8, February 21, 1913.

A perfect grade (100) is made up as follows:

Dairy farms on which milk was produced, equipment and methods.....	162
Dairy cattle on farms on which milk was produced, health and cleanliness.....	162
Dairy from which milk is distributed to consumers, equipment and methods.....	162
Nutritive value of milk as determined by chemical analyses.....	162
Wholesomeness, cleanness, and keeping qualities, as determined by bacteriological analyses.....	334
Total.....	100

Name of dealer.	Dealer's description of class of milk.	Health office grade.
Alden, H. L.....	Pasteurized milk.....	52.86
Alderney Dairy (see Black, H. L., & Son).		
Anadale Dairy (see Castle, J. W.)		
Auth Bros.....	Milk.....	68.60
Avalon Dairy (see Dorr, J. & G.)		
Baynes, Thomas.....	do.....	65.35
Black, H. L. & Son.....	Pasteurized milk.....	51.39
Bowles, J. J.....	do.....	54.79
Broad Branch Road Dairy (see Bayne).		
Brown, A. J.....	Milk.....	83.37
Burnside Farms Dairy (see Walker Gordon).		
Castle, J. W.....	do.....	62.36
Cherrydale Dairy (see Marey, J.).		
Chestnut Farms Dairy (see Oyster, G. M.).		
Chevy Chase Dairy (see Wise Bros.).		
Cudmore, P.....	do.....	87.58
De Arago.....	do.....	72.20
Dixon, J. B.....	do.....	75.49
Dorr, J. V., & George.....	do.....	79.68
Eckington Dairy (see Cudmore).		
Estes, J. W.....	Pasteurized milk.....	74.18
Gregg, J. W.....	do.....	63.59
Haight, A. R.....	Pure milk.....	74.88
Hamilton Dairy (see Selegman, W. R.).		
Hetlin, M. C.....	do.....	52.71
High Ridge Dairy (see Hill, C. T.).		

AVERAGE GRADES OF MILK DISTRIBUTED IN THE DISTRICT OF COLUMBIA DURING THE YEAR ENDING JUNE 30, 1919—Continued.

Name of dealer.	Dealer's description of class of milk.	Health office grade.
Hill, C. T.	Milk	68.47
Home Dairy (see Judd & Hodges).		
Horner, C. V.	Pasteurized Milk	71.75
Horrigan, Albert	Special milk	60.17
Hutchinson, B. T.	Pure milk	78.28
J. H. R. Farms Dairy (see Rupert, J. H.).		
Jersey Dairy (see Bowles, J. J.).		
Judd & Hodges	Quality milk	83.40
Kiplinger, W. B.	Milk	73.71
Leapley, Chas. E.	do.	79.08
Lacteal Dairy (see Shawn, M. L.).		
Lewinsville Dairy (see Storm & Sherwood).		
Loudon Dairy (see Horner, C. V.).		
Marcey, Julius	do.	58.11
Markman, Edward	do.	70.06
Mayhew, L. E.	do.	71.57
Mount Rocky Dairy (see Alden, H. L.).		
National Dairy (see Gregg, J. W.).		
Ogle, M. E.	do.	75.34
Orrison, J. S.	do.	61
Oyster, G. M.	Special milk past.	88.41
Do.	Certified milk	97.66
Do.	Milk	52.88
Peake, M. E.		
Poplar Dairy Farm (see Scammiel, R. E.).		
Purity Dairy (see De Arago, P.).		
Pumphrey, George B.	do.	1 42.18
Reilly, J. P.	do.	81.36
Ruppert, J. H.	do.	70.32
Scammiel, R. E.	do.	86.17
Selecman, W. R.	do.	58.37
Sharon Dairy (see Thompson, C.).		
Shawn, M. L.	Tuberculin tested milk	54.03
Simpson, W. A.	Pasteurized milk	53.33
St. Clair Dairy (see Heflin, M. C.).		
Storm & Sherwood	Pasteurized	72.14
Do.	Famous milk	71.64
Tanner, A. T.	Milk	52.56
Tenley, A. C.	do.	73.19
Thompson, Corbin	Pasteurized milk	41.96
Do.	Woodridge milk	59.65
Thompson's Dairy (see Thompson Sisters).		
Thompson Sisters	Pasteurized milk	75
Do.	Special milk	81.49
Union Valley Dairy (see Estes, J. W.).		
Van View Dairy (see Orrison, J. S.).		
Wahler Bros.	Milk	82.77
Walker Gordon Laboratory	Certified milk	1 98.05
Walker Hill Dairy (see Simpson, W. A.).		
White Clover Dairy (see A. T. Tanner).		
Willow Grove Dairy (see Tenley, A. C.).		
Wise Bros.	Pasteurized milk	74.44
Do.	Special raw milk	75.24
Woodridge Farm (see Thompson, C.).		

¹ Figures represent only a portion of a year. Omissions due to insufficient data in the Health Department to fairly compute a grade, or the firm started in business after the beginning of the year.

REPORT OF THE HEALTH OFFICER.

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1919, with corresponding figures for the preceding year (based on 306 working days).

Character of service.	Employees.		Salaries.		Traveling expenses.		Incidentals.		Total.	
	1918	1919	1918	1919	1918	1919	1918	1919	1918	1919
I. General supervision.....	2	2	\$6,500.00	\$6,500.00	\$156.05	\$518.19	\$1,268.91	\$1,254.90	\$6,956.05	\$7,018.17
II. Clerical service.....	5	5	9,820.00	10,720.00	2.00	.85	528.44	1,315.74	11,000.91	11,973.75
III. Registration of vital statistics.....	8	5	5,900.00	6,000.00	1.67	.89			6,430.63	7,316.63
IV. Messengers and drivers.....	3	3	1,800.00	1,920.00	6.92	7.37			1,806.92	1,927.37
V. Sanitary inspection, general, including supervisory.....	14	16	16,300.00	18,500.00	369.50	439.05	410.27	376.78	17,789.77	19,355.88
Smoke.....	1	1	1,200.00	1,200.00	20.46	15.82	12.86	13.30	1,223.32	1,253.92
Eight-hour.....	4	4	4,500.00	4,500.00	52.62	54.92	100.90	138.35	4,653.52	4,713.27
VI. Food inspection:										
Supervisory.....	3	3	4,200.00	4,100.00	483.95	480.37			4,683.95	4,580.37
Veterinary.....	6	6	6,300.00	6,800.00	3,101.65	3,663.73			9,401.65	10,463.73
Markets.....	8	10	7,800.00	9,900.00	285.90	137.63	546.84	620.38	8,632.74	10,658.03
Chemical laboratory.....	3	3	3,800.00	4,100.00	2.46	3.93	{ 426.57	{ 226.93	5,002.25	5,294.87
Dairies.....	2	2	2,400.00	2,600.00	26.47	33.62	953.22	961.01	2,426.47	2,633.62
VII. Contagious-disease service:										
Supervisory.....	1	1	1,356.50	2,391.67	177.92	30.00			1,534.42	2,421.67
Clerks.....	1	3	1,392.25	1,850.28					1,850.28	1,850.28
Inspectors.....	13	12	6,545.50	10,674.88	186.60	104.74			6,732.10	10,719.62
Watchmen.....	1	5	16.00	247.50					16.00	247.50
Incidental expenses.....							4,127.95	5,390.23	4,127.95	5,390.23
Smallpox hospital—										
Matron.....	1	1	81.75	173.35					81.75	173.35
Nurse.....	2	2	1,274.00	1,706.70					1,274.00	1,706.70
Janitor.....	1	1	182.25	173.35					182.25	173.35
Laborers.....	2	10	273.00	1,024.00					1,029.00	1,029.00
Incidental expenses.....							3,629.05	4,489.43	3,629.05	4,489.43
Quarantine station—										
Matron.....	1	1	284.08	286.68					284.08	286.68
Nurse.....	2	2	1,037.00	1,193.36					1,037.00	1,193.36
Janitor.....	1	1	134.58	286.68					134.58	286.68
Laborers.....	3	10	218.25	472.00					218.25	472.00
Incidental expenses.....							3,349.45	2,671.17	3,349.45	2,671.17
Lepet hospital—										
Nurse.....	1	1	797.67	220.00					797.67	220.00
Matron.....	1	1	357.83	105.00					357.83	105.00
Watchmen.....	1	1	182.50	25.00					182.50	25.00
Incidental expenses.....	1	3	108.00	165.00					108.00	165.00
Ambulance service—							1,233.66	381.58	1,233.66	381.58
Drivers.....	2	2	984.75	1,068.54					984.75	1,068.54
Stablemen.....	1	1	287.63	447.78					287.63	447.78

VIII. Disinfecting service:									
Influenza hospital, employees *								1,880.10	1,740.10
Inspectors.....								6,592.73	
Disinfectors.....	3	1	2,052.25						2,052.25
Stableman.....	2	2	1,437.13						1,437.13
Incidental expenses.....	1	1	287.63						287.63
IX. Bacteriological laboratory:									
Bacteriologist.....	1	1	2,596.50						2,611.13
Assistant bacteriologist.....	1	2	1,200.00						1,216.37
Skilled laborer.....	1	1	720.00						720.00
Laborers.....	2	1	566.00						566.00
Incidental expenses.....									
Serological laboratory—									
Serologist.....	1	1	2,500.00						2,500.00
Incidentals, equipment, etc.....									1,187.85
X. Public crematorium:									
Superintending inspector.....	1	1	118.25						118.25
Superintendent.....	1	1	1,107.75						1,107.75
Incidental expenses.....									581.59
XI. Dispensary:									
Tuberculosis clinic— ¹									
Director.....	1	1	200.00						200.00
Attending physicians.....	3	3	439.00						439.00
Röntgenologist.....	1	1	600.00						600.00
Nurses.....	3	3	2,690.17						2,733.85
Laryngologist.....	1	1	154.00						154.00
Veneral-disease clinic— ²									
Director.....	1	1	538.34						538.34
Attending physicians.....	3	3	465.00						465.00
Nurse.....	1	1	536.66						537.91
Caretakers.....	2	2	850.00						850.00
Incidental expenses, including repairs to buildings.....									6,473.42
XII. Pound service:									
Chief clerk.....	9	9	500.00						500.00
Poundmaster.....	1	1	1,400.00						1,400.00
Employees.....	4	5	2,400.00						2,409.16
Incidental expenses, including repairs to buildings.....									1,891.51

¹ Four-fifths time of chief clerk.² One \$1,200 clerk, 1918; one \$1,000 clerk, 1919.³ One \$1,000 clerk, 1918; one \$900 clerk, 1919.⁴ Cost of samples.⁵ Includes 4 part-time nurses and 6 part-time medical inspectors, 1918; 9 part-time medical inspectors, 1919.⁶ Opened Dec. 20, 1918. Under exclusive supervision of health department Mar. 1, 1919. Closed to patients Mar. 15, 1919.⁷ Opened Sept. 10, 1918.⁸ Opened Nov. 21, 1918.⁹ One-fifth time of chief clerk of health department.

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1919, with corresponding figures for the preceding year (based on 306 working days)—Continued.

I. SUPERVISORY SERVICE.

	Annual average.		Daily average.	
	1918	1919	1918	1919
Health officer.....	\$4,000.00	\$4,000.00	\$13.07	\$17.07
Assistant health officer.....	2,500.00	2,500.00	8.10	8.10
Total cost of transportation.....	456.05	518.19	1.50	1.69

II. GENERAL CLERICAL SERVICE.

Units of work.	Annual average.		Daily average.	
	1918	1919	1918	1919
Letters received.....	11,823	11,292	38.6	36.9
Letters sent.....	14,638	14,514	47.8	47.3
Oral complaints received.....	4,748	5,200	15.5	15.9
Special reports indexed.....	1,618	1,271	5.3	4.1
Employees.....	8	9		
Total cost of service.....	\$9,820.00	\$10,720.00	\$32.09	\$35.03
Total cost of incidentals (approximate).....	1,268.91	1,254.00	4.15	4.10
Total cost of transportation.....	2.00	.85	.006	.002
Total cost, inclusive of undistributed cost of supervision.....	11,090.91	11,975.75	36.6	39.13

III. REGISTRATION OF VITAL STATISTICS.

	Annual average.		Daily average.	
	1918	1919	1918	1919
Death certificates recorded:				
Local.....	7,400	9,234	23.2	30.2
Foreign.....	603	965	2.3	3.2
Birth certificates recorded.....	7,793	8,118	25.5	26.5
Stillbirth certificates recorded.....	448	506	1.5	1.6
Burial and disinterment permits issued and subsequently received and filed.....	8,773	11,234	28.7	37.7
Transcripts issued.....	1,599	2,150	5.2	7.02
Collected for transcripts.....	\$701	\$965		
Employees.....	5	5		
Cost of service.....	\$5,900.00	\$6,000.00	\$19.28	\$19.61
Cost of incidentals (approximate).....	528.44	1,315.74	1.72	4.50
Cost of transportation.....	1.67	.80		
Total cost, exclusive of undistributed cost of supervision.....	6,430.11	7,316.63	21.00	23.91

¹ 1,408 issued with fee, 1918.

² 1,930 issued with fee, 1919.

IV. MESSENGER SERVICE.

	Annual average.		Daily average.	
	1918	1919	1918	1919
Messengers.....	\$1,200.00	\$1,200.00	\$3.92	\$3.92
Driver.....	600.00	720.00	1.95	2.35
Cost of transportation.....	6.92	7.37	.022	.023

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1919, with corresponding figures for the preceding year (based on 306 working days)—Continued.

V. GENERAL SANITARY INSPECTION SERVICE.

A. SUPERVISION.

	Fiscal year.		Daily average.		Daily average per inspector.	
	1918	1919	1918	1919	1918	1919
Chief inspector.....	1	1	.....	.....	.....	.....
Assistant chief inspector.....	1	1	.....	.....	.....	.....
Clerk.....	1	1	.....	.....	.....	.....
Total salaries.....	\$4,400.00	\$4,200.00	\$14.38	\$13.72	.....	.....

B. SANITARY INSPECTION SERVICE.

Complaints acted upon.....	9,306	8,883	30.40	29.02	2.8	2.23
Inspection on complaints.....	12,550	12,051	41.03	39.38	3.7	3.02
Reinspections.....	19,878	18,806	64.9	61.45	5.9	4.72
Official calls made.....	20,879	20,896	68.23	68.28	6.2	5.25
Notices served outside of assigned inspection districts.....	3,570	3,182	11.6	10.39	1.1	.79
House-to-house inspection.....	4,626	8,778	15.11	28.68	1.4	2.20
Inspection of barber shops.....	1,226	1,554	4.006	5.08	.4	.39
Inspection of stables.....	887	1,277	2.84	4.17	.26	.32
Inspection of privies.....	2,066	2,191	6.75	7.16	.6	.55
Inspection of laundries.....	1,434	1,783	4.68	5.82	.4	.44
Other miscellaneous inspections.....	1,881	2,009	6.14	6.56	.5	.50
Total inspectors.....	12	13	.....	.....	.....	.....
Total salaries.....	\$16,300.00	\$18,500.00	\$53.26	\$60.46	\$1.10	\$4.65
Cost of incidentals (approximate).....	410.27	376.78	1.34	1.23	.12	.09
Cost of transportation.....	369.50	439.05	1.20	1.43	.10	.11
Total cost of sanitary service, exclusive of undistributed cost of supervision.....	17,079.77	19,315.83	55.80	63.12	4.32	4.85

C. SMOKE INSPECTION SERVICE.

Places under observation.....	673	679	2.19	2.21	2.19	2.21
Observations.....	7,221	6,509	23.4	21.2	23.4	21.2
Inspectors.....	1	1	.....	.....	.....	.....
Total salaries.....	\$1,200.00	\$1,200.00	\$3.92	\$3.92	\$3.92	\$3.92
Cost of incidentals (approximate).....	27.86	39.50	.09	.13	.09	.13
Cost of transportation.....	20.46	15.82	.07	.05	.07	.05
Total cost of smoke service, exclusive of undistributed cost of supervision.....	1,248.32	1,255.32	4.08	4.10	4.08	4.10

D. EIGHT-HOUR FEMALE LABOR LAW INSPECTION.

Complaints acted upon.....	147	84	0.48	0.24	0.16	0.08
Inspections on complaint.....	104	79	.33	.26	.11	.09
Inspections made on the initiative of the inspector.....	10,704	13,664	3.5	4.5	1.1	1.5
Official calls made.....	592	580	1.9	1.9	.6	.6
Total inspectors.....	3	3	.....	.....	.....	.....
Total clerks.....	1	1	.....	.....	.....	.....
Total salaries.....	\$4,500.00	\$4,500.00	\$14.70	\$14.70	\$4.90	\$4.90
Cost of incidentals (approximate).....	100.90	158.35	.32	.52	.10	.17
Cost of transportation.....	52.62	54.92	.17	.18	.05	.06
Total cost of eight-hour female labor law service, exclusive of undistributed cost of supervision.....	4,653.52	4,713.27	15.19	15.40	5.05	5.13

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1919, with corresponding figures for the preceding year (based on 306 working days)—Continued.

VI. FOOD INSPECTION SERVICE.

A. SUPERVISION.

	Fiscal year.		Daily average.		Daily average per inspector.	
	1918	1919	1918	1919	1918	1919
Chief inspector.....	1	1				
Assistant chief inspector.....	1	1				
Clerk.....	1	1				
Total salaries.....	\$4,420.00	\$4,100.00	\$14.42	\$13.40		
Cost of transportation.....	283.29	480.37	.92	1.57		

B. VETERINARY SERVICE.

Dairy farms.....	1,131	1,435				
Inspections.....	4,035	4,415	13.18	14.43	2.19	2.41
Slaughterhouses.....	15	15				.03
Inspections.....	234	64	.76	.21	.12	.03
Communicable diseases of animals:						
Cases reported.....	260	208	.84	.68	.11	.11
Inspections of horse market.....	495	388	1.3	1.2	.21	.20
Inspectors.....	6	6				
Total salaries.....	\$6,300.00	\$6,800.00	\$20.58	\$22.22	3.43	3.70
Cost of traveling expenses (approx.).....	3,101.65	3,663.73	10.13	11.97	1.49	2.00
Total cost, exclusive of undistributed cost of supervision.....	9,401.65	10,463.73	30.72	34.19	4.92	5.70

C. MARKETS, STORES, LUNCH ROOMS, ETC.

Registered at close of year.....	3,671	3,728	11.99	12.18	1.49	1.52
Under inspection during year.....	3,574	3,728	11.67	12.18	1.46	1.52
Inspections.....	49,698	61,818	166.54	202.02	20.81	20.20
Inspectors.....	8	10				
Total salaries.....	\$7,800.00	\$9,900.00	\$25.49	\$32.35	\$3.17	\$3.24
Cost of incidentals.....	516.84	620.38	1.78	2.07	.22	.21
Cost of transportation.....	285.90	137.65	.93	.45	.11	.04
Total cost, exclusive of undistributed cost of supervision.....	8,632.74	10,658.03	29.20	34.87	3.51	3.49

D. CHEMICAL LABORATORY.

Samples analyzed.....	8,563	9,090	27.90	29.70	9.3	9.9
Samples of food.....	8,165	8,928	26.70	29.17	8.9	9.7
Samples of water.....	153	92	.50	.30	.16	.1
Samples of miscellaneous.....	215	70	.80	.22	.26	.07
Employees.....	3	3				
Salaries.....	\$3,800.00	\$4,100.00	\$12.41	\$13.40	\$4.13	\$4.37
Cost of food samples.....	216.57	226.93	.80	.74	.26	.24
Cost of incidentals.....	953.22	964.01	3.11	3.15	1.03	1.05
Cost of transportation.....	2.46	3.93	.008	.012		
Total cost, exclusive of undistributed cost of supervision.....	4,002.25	5,294.87	16.328	17.302	5.42	5.66

E. DAIRIES, AND COLLECTION OF SAMPLES.

Inspection.....	576	660	1.88	2.15	1.88	2.15
Samples collected.....	7,684	10,833	25.11	35.40	25.11	35.40
Inspectors.....	2	2				
Salaries.....	\$2,400.00	\$2,600.00	\$7.84	\$8.50	\$3.92	\$4.25
Cost of transportation.....	26.47	33.62	.086	.11	.043	.06
Total cost, exclusive of undistributed cost of supervision.....	2,426.47	2,633.62	7.926	8.61	3.96	4.31

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1919, with corresponding figures for the preceding year (based on 306 working days)—Continued.

VII. CONTAGIOUS DISEASE SERVICE.

Cases reported.	Fiscal year.		Average per day.		Daily average per inspector.	
	1918	1919	1918	1919	1918	1919
Anterior poliomyelitis.....	6	2	0.02	0.006	0.004	.....
Epidemic cerebrospinal meningitis.....	122	18	.33	.58	.07	0.008
Chicken pox.....	1,198	1,005	3.2	3.28	.64	.49
Diphtheria.....	1,112	826	3.04	2.7	.6	.4
Measles.....	7,618	296	20.8	.96	4.2	.137
Pellagra.....	21	10	.06	.032	.01	.005
Scarlet fever.....	1,102	536	3.3	1.75	.7	.25
Smallpox.....	38	188	.10	.61	.02	.087
Tuberculosis.....	1,118	1,166	3.3	3.8	.7	.54
Typhoid fever.....	328	192	.9	.62	.2	.088
Whooping cough.....	1,144	1,097	3.73	3.58	.6	.51
Influenza.....		34,665	.....	113.28	.....	16.18

A. GENERAL SUPERVISION, PLACARDING, RECORDING, ETC.

	1918		1919	
	Days.	Amount.	Days.	Amount.
Cost (exclusive of cost of service rendered by sanitary inspectors):				
Chief inspector.....	240	\$1,356.50	315	\$2,391.67
Clerk.....	376	1,392.25	564	1,850.28
Inspectors.....	1,581½	6,545.50	2,280	10,674.88
Watchman.....	8	16.00	82½	247.50
Total.....	2,205½	9,310.25	3,241½	15,164.33
Incidentals, printing, supplies, etc. (approximate).....		4,127.95		5,390.23
Cost of transportation.....		364.82		131.74
Total.....		13,803.02		20,684.30

B. SMALLPOX HOSPITAL.

Patients cared for.....	36		176	
Hospital open, days.....	145		247	
Service rendered, patient days.....	445		2,034	
Cost:				
matron.....	54½	\$81.75	106	\$173.35
2 nurses.....	477	1,274.00	518	1,706.70
1 janitor.....	158½	182.25	106	173.35
Laborers.....	173	273.00	423	1,029.00
Total.....	863	1,811.00	1,153	3,082.40
Incidentals, supplies, fuel, etc. (approximate).....		3,629.05		4,489.43
Total.....		4,440.05		7,571.83

C. QUARANTINE STATION.

Inmates cared for.....	82		182	
Days quarantine station open.....	180		164	
Service rendered, inmate days.....	723		1,686	
Cost:				
1 matron.....	187½	\$284.08	184	\$286.68
2 nurses.....	397	1,057.00	362	1,193.36
1 janitor.....	208½	134.58	184	286.68
Laborers.....	145½	218.25	239	472.00
Total.....	938½	1,693.91	969	2,238.72
Incidentals, supplies, fuel, etc. (approximate).....		3,349.45		2,671.17
Total.....		5,043.36		4,909.89

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1919, with corresponding figures for the preceding year (based on 306 working days)—Continued.

VII. CONTAGIOUS DISEASE SERVICE—Continued.

D. LEPER HOSPITAL.

	1918		1919	
	Days.	Amount.	Days.	Amount.
Cost:				
Nurse.....	365	\$796.67	77	\$220.00
Matron.....	365	337.83	77	105.00
Laborer.....	55	82.50	12½	25.00
Watchman.....	54	108.00	55	165.00
Total.....	839	1,325.00	221½	515.00
Incidentals, supplies, fuel, etc. (approximate).....		1,233.66		381.58
Total.....		1,558.66		896.58

E. AMBULANCE SERVICE.

Minor contagious diseases:				
Patients transported.....		530		373
Days ambulance in active service.....	267		239	
Cost:				
2 ambulance drivers.....	419	\$984.75	400½	\$1,068.54
Stableman.....	312½	287.63	349	447.78
Total.....	731½	1,272.38	749½	1,516.32
Incidentals, including food for experimental animals, forage, shoeing, etc. (approximate).....		1,740.10		1,880.10
Total.....		3,012.48		3,396.42

F. INFLUENZA HOSPITAL.

Number of patients.....		223		
Number of patient days.....		2,096		
Employees.....			261½	\$870.08
Incidentals, supplies, etc.....				5,722.65
Total.....				6,592.73

VIII. DISINFECTING SERVICE.

Premises disinfected..... number.....		2,388	1,895	
Articles disinfected at disinfecting station.....		326	909	
Cost:				
Inspectors.....	640	\$2,052.25	304	\$1,838.32
2 disinfectors.....	670½	1,437.13	609	1,753.18
1 stableman.....	312½	287.63	289	314.44
Total.....	1,623	3,777.01	1,202	3,905.94
Incidentals, disinfectants, forage, shoeing, etc. (Approximate).....		3,631.83		2,290.60
Total.....		7,408.84		6,196.54

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1919, with corresponding figures for the preceding year (based on 306 working days)—Continued.

IX. LABORATORIES.

A. BACTERIOLOGICAL.

	1918		1919	
	Days.	Amount.	Days.	Amount.
Specimens examined.....number.....		20,009		18,215
Days service rendered by employees.....	1,329½		1,825	
Cost:				
Bacteriologist.....	406½	\$2,596.50	365	\$1,800.00
Assistant bacteriologist.....	365	1,200.00	730	2,400.00
Skilled laborer.....	365	720.00	365	800.00
Laborer.....	283	566.00	365	720.00
Total.....	1,329½	5,082.50	1,825	5,720.00
Incidentals, repairs to apparatus, etc. (approximate).....		935.40		1,261.91
Transportation.....		31.00		37.57
Cost of samples.....		105.59		69.60
Total.....		6,154.49		7,089.08

NOTE.—The services of the bacteriologist, which are paid for from the appropriation for the contagious disease service are entered as an item of cost under "bacteriological laboratory."

B. SEROLOGICAL.

Diphtheria antitoxin prepared, units.....		23,000.000		
Typhoid vaccine treatments.....		12,000		
Specimens examined.....		409		1,151
Days service rendered by employees.....		306		306
Cost:				
1 serologist.....		\$2,500.00		\$2,500.00
Incidentals, equipment, etc.....		1,187.85		500.77
Total.....		3,687.85		3,000.77

X. PUBLIC CREMATORIUM.

Bodies burned—1918, 93 adults, 157 infants, 259 stillborn; 1919, 137 adults, 169 infants, 273 stillborn.....	509		579	
Days crematory was in operation.....			118	58
Cost:				
1 supervisory inspector.....	236½	\$118.25		
1 superintendent.....	316½	1,107.75	306	\$1,300.00
Total.....	553	1,226.00		
Incidentals, kerosene, etc. (approximate).....		581.59		604.43
Total.....		1,807.59		1,904.43
Fees collected for cremation at private expense.....		925.00		2,050.00
Net cost of operation.....		882.59		
Excess over cost of operation.....				145.57

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1919, with corresponding figures for the preceding year (based on 306 working days)—Continued.

XI. DISPENSARY.

TUBERCULOSIS CLINIC.

	1918		1919	
	Days.	Amount.	Days.	Amount.
Number of patients treated.....		619		
Number of instructive visits made by nurses.....		5,482		
Number of nursing visits made by nurses.....		344		
Number of X-ray examinations made.....		160		
Cost:				
Director.....	365			\$200.00
Attending physicians.....	251 ¹			439.00
Röntgenologist.....	365			600.00
Nurses.....	839			2,690.17
Laryngologist.....	156			154.00
Total.....				4,083.17

VENEREAL DISEASE CLINIC.

Total number of syphilitic patients.....	116		
Total number of gonorrheal patients.....	203		
Miscellaneous.....	99		
Patients examined for suspected venereal diseases.....	143		
Total number of visits of patients to clinic.....	1,353		
Cost:			
Director.....	328		\$538.34
Attending physicians.....	469		465.00
Nurse.....	1		536.66
Total.....			1,540.00
Caretakers.....	2		850.00
Incidentals, equipment, repairs, and alterations to building, etc.....			6,473.42
Total cost of both clinics.....			12,946.59

XII. POUND SERVICE.

	Fiscal year.		Daily average.	
	1918	1919	1918	1919
All animals impounded and collected.....	5,822	4,910	19	16
Fees collected.....	\$870.50	\$1,311.05	\$2.51	\$4.28
Employees.....	16			
Total cost of service.....	\$4,900.00	\$5,620.00	15.01	\$18.36
Cost of incidentals (approximate).....	1,891.51	1,147.44		

¹ Includes 1 watchman.² One-fifth time of chief clerk.

HOSPITALS AND CEMETERIES.

List of private hospitals and asylums in the District of Columbia licensed to June 30, 1919, showing location and date licensed.

HOSPITALS FOR HUMAN BEINGS.

Name.	Location.	Date licensed.
Jane B. Silvester Sanatorium.....	2005 Kalorama Road NW.....	Apr. 21, 1910
Garfield Memorial Hospital.....	Tenth Street and Florida Avenue NW.....	Feb. 18, 1911
Georgetown University Hospital.....	Thirty-fifth and N Streets NW.....	Mar. 1, 1911
Sibley Memorial Hospital.....	North Capitol and Pierce Streets NW.....	Mar. 7, 1911
Episcopal Eye, Ear, and Throat Hospital.....	1147 Fifteenth Street.....	Oct. 4, 1911
Children's Hospital.....	Thirteenth and W Streets.....	Sept. 8, 1911
National Homeopathic Hospital.....	N and Kirby Streets.....	July 6, 1911
Washington Eye, Ear, and Throat Hospital.....	2515-2517 Pennsylvania Avenue NW.....	Dec. 7, 1918
Margaret J. Thompson and Alice M. Prentiss.....	1417 Rhode Island Avenue.....	Aug. 27, 1918
Dr. H. R. Street and Ida M. Brown.....	1414 Girard Street NE.....	Nov. 21, 1913
Washington Sanitarium Hospital.....	1252 Sixth Street SW.....	July 8, 1914
Capital City Sanitarium.....	Fifteenth Street and Ohio Avenue NW.....	Nov. 5, 1915
Chevy Chase Sanitarium.....	Thirty-second and Tennyson Streets.....	Mar. 24, 1914
Simeon L. Carson.....	1822 Fourth Street NW.....	Dec. 20, 1918

HOSPITALS FOR ANIMALS.

C. B. Robinson.....	222 C Street NW.....	Dec. 6, 1909
Cecil French.....	Twentieth Street and Park Road NW.....	Feb. 8, 1910
J. P. Turner.....	916 O Street NW.....	Feb. 18, 1910
D. E. Buckingham.....	2115 Fourteenth Street NW.....	Mar. 25, 1910
Reid R. Ashworth.....	36 New York Avenue NW.....	July 7, 1916
Bosley & Weeks.....	309 Sixth Street NW.....	June 23, 1910
Theo. Schondau.....	300 Decatur Street NE.....	Oct. 25, 1911
John P. Keifer.....	2630 Twelfth Street NE.....	June 14, 1913
W. P. Collins.....	2130 P Street NW (rear).....	Mar. 7, 1914
Reid R. Ashworth.....	1226-1228 North Capitol Street.....	June 30, 1917

ASYLUMS FOR HUMAN BEINGS.

Florence Crittenton Home.....	218 Third Street NW.....	Mar. 25, 1910
Home for Incurables.....	S Street between Thirty-first and Thirty-second NW.....	July 19, 1910
Children's Country Home.....	Grant Road NW.....	Do.
St. Vincent's Orphan Asylum.....	Edgewood, D. C.....	Do.
Masonic and Eastern Star Home.....	Takoma, D. C.....	Feb. 24, 1911
St. Ann's Infant Asylum.....	2300 K Street NW.....	Do.
St. Joseph's Male Orphan Asylum.....	924 H Street NW.....	Mar. 6, 1911
Epiphany Church Home.....	1221 Massachusetts Avenue NW.....	Mar. 23, 1911
Edes Home.....	2929 N Street NW.....	Mar. 25, 1911
Woman's Christian Association.....	1719 Thirteenth Street NW.....	Mar. 29, 1911
Methodist Home.....	601 M Street NW.....	Apr. 12, 1911
Presbyterian Home.....	1420 M Street NW.....	May 13, 1911

List of cemeteries.

Addison Chapel.	Green Vale.	National Capital Hebrew Association.
Adas Israel.	Harmony.	Oak Hill.
Above Shalom.	Hillsdale.	Payne's.
Baptist.	Holy Rood.	Potters' Field.
Battle Ground. ¹	Jones Chapel.	Prospect Hill.
Blue Plains. ²	Macaphelia. ¹	Rock Creek.
Christian. ¹	Macedonia.	St. Albans. ¹
Congressional.	Methodist, Tennallytown.	St. Mary's.
Elesavetgrad Cemetery Association.	Moore's.	Talmud Torah.
Georgetown Convent.	Mount Olivet.	United States Soldiers' Home.
Glenwood.	Mount St. Sepulchre, Franciscan Cemetery.	Visitation Convent.
Government Hospital for the Insane.	Mount Zion.	Washington Hebrew.
		Woodlawn.

¹ No interments during the year.² For indigents.*Crematories.*

J. William Lee's.

District of Columbia public crematory.



APPENDIX H.

LIST OF PHYSICIANS ENTITLED TO PRACTICE MEDICINE IN THE DISTRICT OF COLUMBIA SEPTEMBER 1, 1919.

- | | | | |
|----------------------------|-----------------------------|----------------------------|-----------------------------|
| Abbe, Truman. | Baker, Willie W. | Bishop, H. A. | Brosius, Mary Alice. |
| Abbot, Griffith E. | Baldus, William T. | Bishop, Herbert F. | Brown, Charles W. |
| Abbott, Frank. | Baldwin, Anton, U. S. | Blackburn, Richard S. | Brown, Harry Lee. |
| Abernethy, Eric A. | N. R. F. | Blaine, Robt. G. | Brown, Hugh A. |
| Acker, George N. | Baldwin, C. A. | Blair, H. C., U. S. A. | Brown, Lucius Horace, Jr. |
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| Adams, George W., jr. | Ballock, Edward A. | Blake, Levi C. | Brown, Orville J. |
| Adams, Jesse Lee. | Banister, W. B., U. S. A. | Blake, Louisa M. | Brown, Robert W. |
| Adams, Roy D. | Barber, James M. | Blakistone, Julian C. | Brown, Sara Winifred. |
| Adams, Samuel S. | Barber, Robt. T. J. | Blanco, Pio, U. S. A. | Brown, W. Hayes. |
| Ainsworth, F. C. | Barbour, Frank A. | Bliss, Charles L. | Browne, Rhodric W. |
| Albers, Frank J., U. S. N. | Barger, A. S. | Bloedorn, W. A., U. S. N. | Browning, Andrew J. |
| Alberman, Zenas W. | Barger, G. J. P. | Bloom, R. | Brumbaugh, Gaius M. |
| Alexander, Rose. | Barker, Howard W. | Blue, James T. | Brummett, Randolph B. |
| Alexander, Samuel A. | Barnes, Noble P. | Boerner, M. H. | Bryan, Joseph H. |
| Alleger, Walter W. | Barnes, Wm. M. | Bogan, Fred, Macon. | Bryson, Herbert J. |
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| Arthurs, S. J. | Beebe, William B. | Brackett, John E. | Byrne, Walter C. |
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 De Saussure, R. L.
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 Dickinson, Dwight, jr.
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 Dufour, Clarence R.
 Dugan, C. L.
 Dulaney, Joshua L.
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 Eastor, R. A.
 Eastham, Grauville.
 Easton, Charles D.
 Eaton, William E., U. S. N.
 Echols, Francis S.
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 Eckhardt, J. C.
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 Edmunds, M. C., U. S. P. H. S.
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 Egbert, Edw. H.
 Eggleston, George W.
 Eggleston, James D.
 Eisenberg, Arthur A.
 Eisenberg, J. J.
 Eldridge, Watson W., jr.
 Elgin, Fisk.
 Elgin, William F.
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 Eliot, Johnson.
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 Ellison, Iverett M.
 Ellyson, Robert M.
 Elmore, Bruce, U. S. N.
 Emery, O. V.
 Emery, W. G.
 Emmons, Charles M.
 English, Charles H.
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 English, Merton A.
 Eppard, George I.
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 Farquhar, Charles.
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 Fox, George L.
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 Foye, A. Frances.
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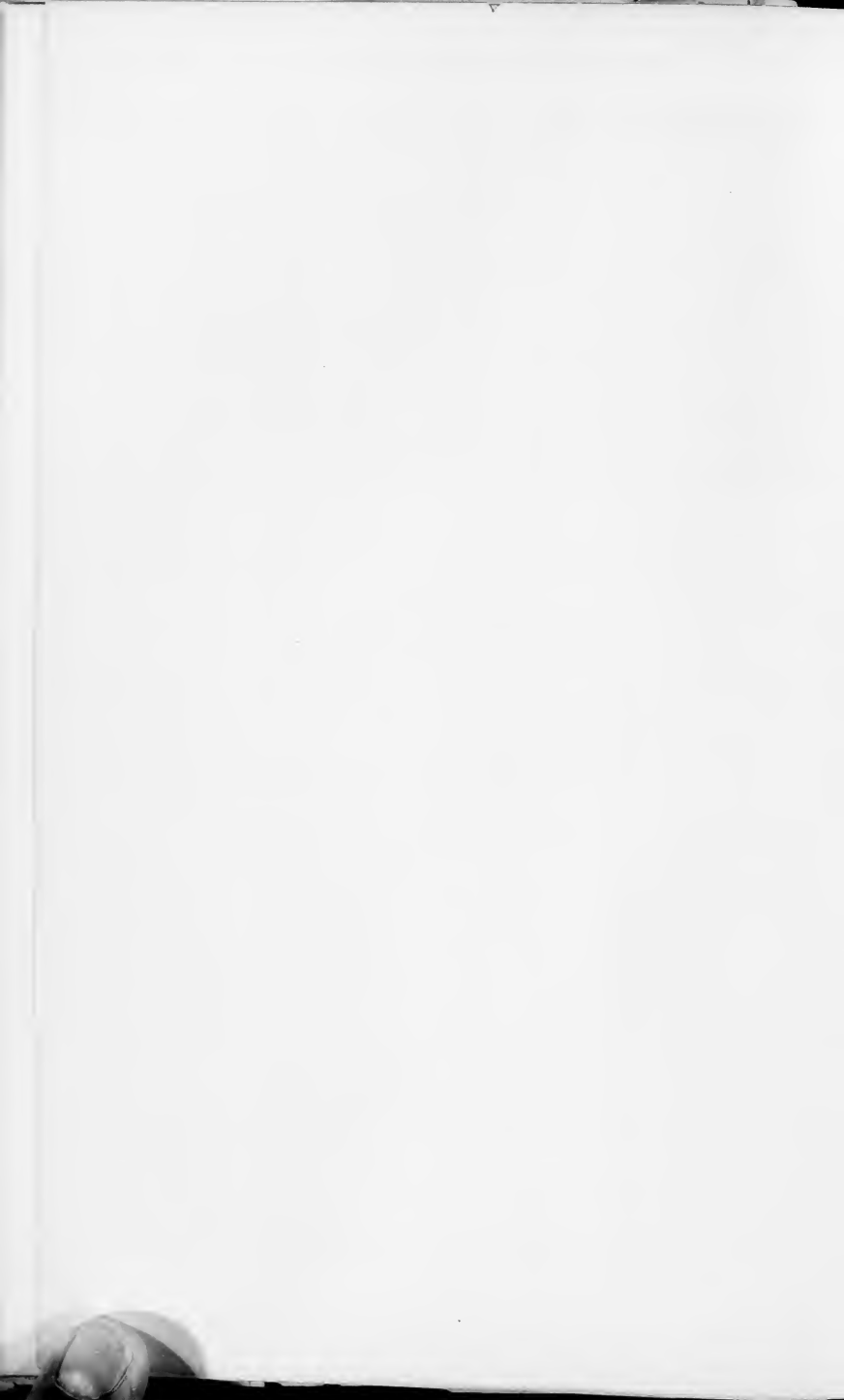
- Garthwaite, Isaac S.
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 Hunter, Montgomery.
 Hunter, Oscar B.
 Huntington, Philip W.,
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 Huntington, W. H.
 Hunt, Joseph R.
 Hurst, Benoni Price.
 Hurst, Julien H.
 Hurtt, Harry.
 Hutchison, Mahlon.
 Hyatt, Frank.
 Hyde, Chas. W.
 Hyson, Laurence M.
 Ingersoll, Olive P.
 Ingersoll, Robert S.
 Ingram, Thomas D.
 Ireland, M. W., U. S. A.
 Irmen, Felix A.
 Irvine, E. S.
 Isaman, Myre S.
 Israeli, Baruch.
 Jack, William A., jr.
 Jackson, Elmer E.
 Jackson, Virgil B.
 Jager, H. W.
 Jaisohn, Philip.
 James, Charles H.
 Jamieson, John S.
 Jamison, Albion B.
 Jarvis, G. L. Baine.
 Jeffries, Joseph A., jr.
 Jenkins, Ralph.
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 Jewett, Henry M.
 Jobson, Wm. R.
 Johann, Albert E., U. S. A.
 Johnson, A. Lloyd,
 U. S. N.
 Johnson, Chas. C.
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 Johnson, H. Virgil.
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 Johnson, Si Iney L.
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 Johnson, Walhee.
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 Johnstone, Robert B.
 Jolley, Bushrod B.
 Jones, C. K., U. S. A.
 Jones, Edward Barton.
 Jones, Eugene.
 Jones, Glenn I.
 Jones, H. W., U. S. A.
 Jones, John E.
 Jones, Louise T.
 Jones, Robert Emmet, jr.
 Jones, Saml. A.
 Jones, T. B.
 Jones, Thomas E.
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- Jones, Wm. C.
 Jones, Willis Wharton.
 Jordan, Arthur.
 Jordan, Charles M.
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 Jorgenson, Hans C.
 Jourdan, Victor J.
 Julihn, Magnus L.
 Jung, Franz A. R.
 Jung, Sofie A. Nordhoff.
 Junghans, John H.
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 Kalusowski, Henry E.
 Kane, Howard F.
 Karlsoe, Wilhelm J.
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 Kaufman, Harry M.
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 Kean, J. R., U. S. A.
 Kearney, Henry W.
 Kehler, Lyman F.
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 Kehrer, Augustus B.
 Kehrner, Wm. L.
 Kelley, Herbert L., U. S. N.
 Kelley, John T., jr.
 Kelly, Daniel J.
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 Kempf, Helen, D. C.
 Kempter, J. Edmond.
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 Kennard, G. Howard.
 Kennely, Wm. P.
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 Key, George B.
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 Kilroy, James J.
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 Kirby, Wm. P.
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 Krechting, Wilhelm E. H.
 Kress, Lauretta E.
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 Kuehn, Fredk. W.
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 Lake, Gleason C., U. S. P. H. S.
 Ladd, John M.
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 Lamb, Isabel Haslup.
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 Nell, Wallace.
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 Nelson, Cyrus W.
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 Nichols, Fenton Mercer.
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 Nolan, Fred M.
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 Nordhoff-Jung, Sofie A.
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 Nowlin, Homer E.
 Nutting, Hugh.
 Ober, George C.
 O'Brien, Emilie Y.
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 O'Donoghue, Jno. A.
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 N.
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 Olssen, Robert Henry.
 Oliver, H. J., jr.
 O'Malley, Mary.
 O'Neill, John B., U. S.
 N. R. F.
 Ong, Henry A.
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 Overton, Geo. N. D.
 Owens, Saml. Logan.
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 Patten, William F.
 Patterson, Edwin W.
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 Pelzman, Ivy A.
 Pence, Charles W.
 Penrod, Hiram J.
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 Perkins, Louis J.
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 Peters, David B.
 Peterson, Bowman H.
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 Pierre, Samuel M.
 Piggett, John Burr.
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 Pipes, Henry F.
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 Pole, Samuel B.
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 Porter, Herbert W.
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 Posey, Orlando J.
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 Prewitt, George T.
 Price, Abel F., U. S. N.
 Price, Harry M.
 Price, Malvern H.
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 Prosperi, Milton H.
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 Purdy, Obadiah A.
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 Quinn, William A.
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 Rafter, Robert R.
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 Ravenburg, Rudolph.
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 Rector, Frank L.
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 Reid, Eva Charlotte.
 Reinhardt, Otto M.
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 Reisinger, Emory W.
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 Richards, Alfred.
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 Stewart, Margaret Ross.
 Stewart, Myra C.
 Stewart, W. S., U. S. A.
 Stewart, William A.
 Stiles, George W., jr.
 Stiles, Henry R., U. S. A.
 Stimpson, W. G., I. H. S.
 Stoddard, Leroy R.
 Stokes, Chas. F., U. S. N.
 Stone, E. P., U. S. N.
 Stone, Isaac S.
 Stone, James H.
 Stone, John H., U. S. A.
 Stonerud, Rebecca.
 Storch, Raymond B.,
 U. S. N.
 Story, James J.
 Story, Leon E.
 Stout, Henry I.
 Stout, Joseph D.
 Stout, May Turner.
 Stoutenburgh, John A.
 Stowell, Charles H.
 Stratton, Ernest K.
 Strawn, Estil Young.
 Street, Daniel B., jr.
 Street, Harlow R.
 Strine, H. F., U. S. N.
 Strobel, Mary L.
 Stromberger, H. H.
 Strong, Francis X., U. S.
 A.
 Stuart, Albert R.
 Stuart, Daniel D. V., jr.
 Stuart, Garden C.
 Stuart, James.
 Stutz, John A.
 Suddarth, James L.
 Sudler, Oden R.
 Sudler, Thomas.
 Sullivan, Timothy Joseph
 Sullivan, Robert Y.
 Sullivan, Welbie L.
 Sult, Chas. W.
 Summy, Bennu W.
 Supplee, E. D.
 Suter, Henderson.
 Suter, W. Given.
 Sutherin, John W.
 Sutliff, Milo H.
 Sutton, Dallas G.
 Sutton, George C.
 Sutton, R. N.
 Swain, Benj. H.
 Swain, Oliver A. T.
 Swan, George F.
 Swa-twout, Frank A.
 Swendsen, Carl G.,
 U. S. N.
 Swett, Fred K.
 Swormstedt, Lyman B.
 Syme, William H.
 Talbott, Edw. M., U. S. A.
 Talbott, John Allen, jr.
 Tappan, Joseph C.
 Tasker, Arthur N.
 Tastet, David W.
 Tayloe, Harry M.
 Taylor, Alfred H.
 Taylor, Chase.
 Taylor, Eugene A.
 Taylor, James E. H.
 Taylor, L. H.
 Taylor, Sterling P.
 Tefft, Frederick O.
 Tennant, Albert A.
 Terrell, C. G., U. S. N.
 Terry, Elmer Clayton.
 Terry, Philip R.
 Test, Frederick C.
 Tewksbury, Wm. D.
 Thomas, Ada R.
 Thomas, Carrie H.
 Thomas, John D.
 Thomas, Wm. J. G.
 Thompkins, Wm. J.
 Thompson, Alex. C.
 Thompson, Edgar, U.
 S. N.
 Thompson, Edgar D.
 Thompson, Henry P. P.
 Thompson, J. Lawn.
 Thompson, Lewis B.
 Thompson, Lewis R.
 Thompson, Millard F.
 Thompson, Silas S.
 Thonssen, William J. R.
 Thornley, Roy A.
 Tibbet, Albert P.
 Tignor, Chas. A.
 Tignor, William L.
 Tilton, Joel A.
 Titus, Elijah A.
 Tobias, Henry W.
 Tobin, Richard Francis.
 Todd, L. C., U. S. N.
 Tolson, Wm. A.
 Tomlin, Timothy H.
 Tompkins, Edmund L.
 Tompkins, George J.
 Towner, Frank H.
 Townsend, Jas. G.
 Townshend, G. D.
 Trent, Jos. P.
 Tribble, G. B., U. S. N.
 Trimble, H. E., U. S. P.
 H. S.
 Trimble, Robt. S.
 Trow, Walter G.
 Trudgian, Josiah B.
 Tubman, James R.
 Tucker, William P.
 Turner, Molyneaux.
 Tuttle, A. D., U. S. A.
 Twogood, Merton E.
 Tyler, Robert B.
 Ulmer, Charles A.
 Upham, William C.
 Uphaw, Thomas L.
 Vail, Wm. C.
 Vale, Frank P.
 Valentine, Aloysius W.
 Van Keuren, Jesse P.
 Van Rensselaer, John.
 Van Swearingen, Walter.
 Vaughan, Geo. T.
 Vaughan, J. M.
 Vaughan, W. W.
 Verbruyke, J. Russell.
 Visler, John W.
 Vincent, Thomas N.
 Viniera, H. mael.
 Von Ezdorf, Rudolph H.
 Wagner, Henry G.
 Wagner, Robert S.
 Warner, William F.
 Walker, Abbott R.
 Walker, C. C.
 Walker, Lewis A.
 Walker, Mary E.
 Walker, Oliver F.
 Walker, Robert A.
 Walker, R. R.
 Wall, Joseph S.
 Wall, M. C.
 Wall, Max.
 Walls, George.
 Wallace, C. Jaquius.
 Wallace, Clifton R.
 Walsh, Ferdinand C.
 Walsh, John E.
 Walsh, Ralph.
 Walter, I.eroy D.
 Walter, William F.
 Ward, Samuel A.
 Ward, William K.
 Warden, H. F. W.
 Warfield, William A.
 Waring, James H. N.
 Waring, J. B. H.
 Warner, Carlen F.
 Warner, John W.
 Warner, Richard A.
 Warren, Benj. S.
 Warren, George W.
 Warren, Stanley S.
 Warricks, John T.
 Washburn, William S.
 Washington, Richard.
 Waters, Chas. H.
 Waters, Chas. L.
 Watkins, Edgar W.
 Watkins, Samuel E.
 Watkins, Victor E.
 Watson, Charles L.
 Watson, Edward J.
 Watson, James A.
 Weaver, Clarence A.
 Weaver, C. H., U. S. N.
 Webb, Daniel A.
 Webb, Frank R.
 Webb, Newton E.
 Webb, W. D., U. S. N.
 Webster, Lenora P.
 Wechsler, Benj. B.
 Weed, Mark D., U. S. A.
 Weems, B. F., jr.
 Weiler, Geo. I.
 Weirich, Cohn Reed.

Weirich, Samuel T., U. S. A.	Whitney, Lawrence.	Willson, Prentiss.	Wooster, Walter M.
Wellington, John R.	Whitney, Walter.	Wilmer, William H.	Wright, B. M., U. S. N.
Wells, Charles A.	Whitson, Wm. Essex.	Wilson, Anita A.	R. F.
Wells, Walter A.	Whittington, Thos. A.	Wilson, Edmund C. A.	Wright, Clarence A.
Wells, Wm. A., jr.	Wickliffe, Thompson F.	Wilson, Edward C.	Wright, George H.
Wenger, Wm. H.	Wiese, E. Robert.	Wilson, J. G., U. S. P.	Wright, Hamilton K.
Wen'el, Albert G.	Wiggins, Dallas B.	H. S.	Wright, Katharine W.
Werber, Gustavus E.	Wiggins, F. C.	Wilson, Lewes D.	Wright, Wilbur L.
Werthenbaker, Clark I.	Wilder, Chas. M.	Wilson, Wm. H.	Wurdemann, H. V.
West, Charles I.	Wilder, James R.	Wimberly, Geo. W.	Wyeth, Marlborough C., U. S. A.
West, John H.	Wiley, Clarence C.	Winders, Frank, U.S.A.	Wynkoop, James C.
West, Richard T.	Wilkes, B. A.	Winslow, John R.	Yarnall, John H.
West, William E.	Wilkinson, Alfred D.	Wirt, Wm. D.	Yarrow, Henry C.
Westlake, John A.	Wilkinson, Oscar.	Wolfe, Edwin P.	Yates, Frederick.
Wetmore, William O.	Wilkinson, Walter W.	Wolfe, James T.	Yoho, Chas. E., U. S. A.
Whaley, A. M., U. S. A.	Willis, H. Clay.	Wood, Amos D.	Young, Claudius J.
Wharton, John J., jr.	Willis, John M.	Wood, George W.	Young, Clement C.
Wheatley, Charles.	Willetts, David G.	Wood, N. N., U.S.N.	Young, Clifton F.
Wheeler, A. J.	Williams, Alexander W.	Wood, Wm. P.	Young, Glendie B.
Whipper, Rollin W.	Williams, Daniel H.	Woodard, M. F.	Young, Wm. G.
Whitby, F. D.	Williams, Geoffrey.	Woode, Charles H.	Yount, Clarence E.
White, Charles S.	Williams, H. J.	Woods, Edgar L., U.S.N.	Zimmerman, Charles St. V.
White, Davenport.	Williams, J. Buxton, jr.	Woodson, T. D., U. S. N.	Zinkhan, A. M.
White, E. C., U. S. N.	Williams, Reginald O.	Woodward, H. Wells.	Zinkhan, Paul H.
White, Ellen P. C.	Williams, Tom A.	Woodward, James S., U. S. N.	
White, Lyle C.	Williams, Welton C.	Woodward, William C.	
White, S. A., U. S. A.	Williamson, L. P., U. S. A.	Woolen, L. J.	
Whitney, Charles F.	Williston, Edward D.	Wooster, Mary L.	



APPENDIX I.

REPORT OF CHIEF OF BUREAU OF VITAL STATISTICS.

SEPTEMBER 15, 1919.

SIR: I have the honor to submit herewith a brief report relative to vital statistics of the District of Columbia for the calendar year 1918, embraced chiefly in accompanying tables.

Population.—The population, according to the police census of 1917 was 395,947. There was no census taken for 1918, and therefore the estimated population upon which the various percentages and death rates are calculated in this report for 1918 is based upon the average increase of 1917 and previous enumerations for the midyear, and gives a total estimated population of 417,405. The white population was 312,806 and the colored 104,599. No estimate was attempted with respect to sex distribution, nor according to statistical districts, nor as to street and alley inhabitants.

The great influx of war workers into the District during and previous to 1918 can not be ascertained with accuracy, but the probability is that were it known, the estimate above mentioned would be shown to be quite conservative.

General mortality.—Deaths from all causes during the calendar year 1918 numbered 9,582, of which 6,262 were white persons and 3,320 colored. The white deaths represent a death rate of 20.2, the colored a rate of 31.7. The general rate was 22.9.

Comparative race mortality.—The following statement shows the ratio between the death rates of the white and colored races from certain specified diseases.

Comparative race mortality.

Disease.	Death rate per 100,000.		Ratio of death rates white to colored.
	White.	Colored.	
Accidents and negligence	67.5	97.0	1 to 1.44
Alcoholism	1.6	0.0	1
Bronchitis (all forms)	18.6	36.4	1 to 1.96
Cerebral hemorrhage	117.6	163.5	1 to 1.39
Cirrhosis of liver	7.4	4.8	1 to 0.65
Convulsions, infantile	1.6	1.0	1 to 0.63
Diarrhea, etc. (under 2 years)	31.9	100.4	1 to 3.15
Dysentery	0.6	2.8	1 to 4.67
Marasmus, inanition (under 1 year)	12.1	12.4	1 to 1.02
Nephritis, acute	11.5	41.1	1 to 3.57
Nephritis, chronic	120.8	235.2	1 to 1.95
Pericarditis, endocarditis, myocarditis	29.4	92.7	1 to 3.15
Pneumonia (all forms)	228.5	557.3	1 to 2.44
Prematurity	53.7	86.1	1 to 1.60
Puerperal nephritis and eclampsia	3.5	6.7	1 to 1.91
Puerperal septicemia	3.5	5.7	1 to 1.63
Pulmonary hemorrhage	0.6	5.8	1 to 9.67
Rheumatism, acute and chronic	6.7	2.8	1 to 0.42
Rickets	0.0	3.9	1
Senility	20.8	26.8	1 to 1.29
Syphilis, congenital	1.0	18.2	1 to 18.20
Suicides	21.7	8.6	1 to 0.40
Tuberculosis, abdominal	3.5	9.6	1 to 2.74
Tuberculosis, meningeal	6.1	9.6	1 to 1.57
Tuberculosis, pulmonary	96.2	330.8	1 to 3.44
Typhoid fever	6.7	25.8	1 to 3.85
Valvular heart disease	170.3	264.0	1 to 1.55
Whooping cough	5.8	23.9	1 to 4.12

Mortality in relation to age.—The average age at death of all decedents during 1918 was 39 years 3 months and 29 days, a decreased age at death of 5 years 8 months and 28 days. The average age of the white decedents was 41 years 10 months and 10 days, and that of the colored 34 years 6 months and 19 days. The average age of the females exceeded the males by 1 year 3 months and 25 days. The white females' age at death exceeded the males by 1 year 8 months and 17 days; the colored females an increase of 1 year 6 months and 14 days. The following table shows the average age of decedents by race and sex during 1917 and 1918, compared.

Average age of decedents, 1917 and 1918.

Race.	Male.			Female.			All.		
	Years.	Months.	Days.	Years.	Months.	Days.	Years.	Months.	Days.
White decedents:									
1917.....	48	10	24	51	3	29	49	11	24
1918.....	41	1	1	42	9	18	41	10	10
Colored decedents:									
1917.....	36	8	1	38	2	21	37	5	8
1918.....	33	9	26	35	3	10	34	6	19
All decedents:									
1917.....	44	4	17	45	10	14	45	0	27
1918.....	38	8	11	40	0	6	39	3	29

Infant mortality.—The consistent decline of the death rate among infants less than 1 year of age for the past 20 years was interrupted during the year under consideration and shows a slight increase over the previous year. This increase is attributed largely to the influence of the recent epidemic of influenza. The yearly variations since 1901 may be seen in the following table:

Death rates under 1 year of age, computed on reported births.

Year.	White.			Colored.			Total.		
	Births.	Deaths under 1 year.	Death rate per 1,000 births.	Births.	Deaths under 1 year.	Death rate per 1,000 births.	Births.	Deaths under 1 year.	Death rate per 1,000 births.
1901-1905 ¹	3,429	519	151	1,980	650	328	5,409	1,169	216
1906-1910 ¹	4,632	522	113	2,268	592	261	6,900	1,114	161
1911-1915 ¹	4,794	411	86	2,234	424	189	7,028	835	119
1916.....	5,042	413	82	2,216	353	159	7,258	766	106
1917.....	5,291	373	70	2,228	357	160	7,519	730	97
1918.....	6,063	508	84	2,158	404	187	8,221	912	111

¹ Average for 5-year period.

Mortality with reference to causes of deaths.—The following statement shows comparison between the number of deaths during 1917 and 1918, separately classified according to certain disease groups and arranged with reference to race. For detailed information concerning the various diseases comprised in these groups, the number of deaths from each disease, and other data, reference should be made to the general statistical Table No. 1 and its subdivisions in the appendix.

Mortality as to disease groups, 1917 and 1918, compared.

Disease groups.	White.				Colored.			
	Male.		Female.		Male.		Female.	
	1917	1918	1917	1918	1917	1918	1917	1918
General diseases.....	495	1,367	485	1,186	325	509	329	577
Nervous system.....	259	274	221	252	119	108	138	137
Circular system.....	422	458	304	392	210	206	237	211
Respiratory system.....	231	465	181	357	209	347	146	297
Digestive system.....	186	183	158	153	113	119	107	123
Genito-urinary system.....	281	278	199	191	164	154	162	170
Puerperal state.....			27	35			32	22
Skin and cellular tissue.....	8	10	5	4	10	12	9	4
Organs of locomotion.....	7	6	3	7		2	3	
Malformations.....	21	11	10	12	2	4	3	2
Infancy.....	93	138	72	112	69	72	72	66
Old age.....	37	21	55	44	12	11	22	17
Violence.....	212	217	94	85	87	109	35	39
Ill-defined diseases.....	3	2	1	2	1	1	1	1
Total.....	2,255	3,430	1,815	2,832	1,321	1,654	1,296	1,666

Suicides.—Seventy-seven persons committed suicide, during 1918, of whom 68 were white and 9 colored. The white suicides were one more than during 1917, while those among the colored race were the same. The various methods employed were as follows: Twenty-three (20 white and 3 colored) chose firearms, 13 (11 white and 2 colored) used illuminating gas, 11 white and 1 colored committed suicide by hanging, 5 white and 2 colored by cutting instruments, 6 white by drowning, 12 white and 1 colored by poisons of various kinds, and 3 white by jumping from high places.

As to the age of those who died by suicide, 5 were between 10 and 19 years of age, 11 between 20 and 29 years, 20 between 30 and 39 years, 15 between 40 and 49 years, 17 between 50 and 59 years, 4 between 60 and 69 years, 4 between 70 and 79 years, and 1 at the age of over 80 years. Suicides among married people numbered 41, unmarried 23, widowed 7, and those whose marital relation was unknown 6. Suicides whose birthplace was the District of Columbia numbered 16. Thirty-seven were born in other parts of the United States, 9 were foreign born, and 15 were of those whose nativity was undetermined.

There were 8,221 live births registered during 1918, of which 6,063 were white babies and 2,158 colored.

Vital statistics for the first half of the calendar year 1919.—The following statement shows the morbidity and mortality in the District of Columbia during the first six months of 1919 with corresponding figures for the first six months of 1918 of certain reportable and other diseases together with deaths due to violence.

Reportable cases of illness and deaths in the District of Columbia from Jan. 1 to June 30, 1919, with figures for corresponding period of 1918.

Diseases.	Cases of reportable disease.		Deaths.				Total.	
			White.		Colored.			
	1918	1919	1918	1919	1918	1919	1918	1919
External causes:								
Accidents and negligence.....			99	96	48	39	147	135
Homicides.....			10	11	16	16	26	27
Suicides.....			32	28	1	3	33	31
Natural causes.....			2,290	2,173	1,424	1,206	3,714	3,379
Total.....			2,431	2,308	1,489	1,264	3,920	3,572
Special diseases:								
Bronchitis.....			32	24	21	19	53	43
Chickenpox.....	635	728						
Diarrheal diseases.....								
Under 2 years.....			15	18	23	11	38	29
2 years and over.....			24	21	17	6	41	27
Diphtheria.....	364	517	17	47		20	17	67
Measles.....	6,850	6,999	40	1	7		47	1
Meningitis, epidemic cerebrospinal.....	98	118	17	3	8	1	25	4
Pellagra.....	8	14	3		1	4	4	4
Pneumonia.....			339	209	311	215	650	424
Pulmonary congestion.....			1	2	1		2	2
Tuberculosis, pulmonary.....	611	1,126	159	176	192	132	351	308
Rheumatism, acute.....			7	1			7	1
Scarlet fever.....	788	883	14	2			14	2
Smallpox.....	30	48						
Typhoid fever.....	45	217	8	1	8	2	16	3
Whooping cough.....	819	1,749	8	2	7	10	15	12
All other diseases.....			1,606	1,666	828	786	2,434	2,452
External causes, as above.....			141	135	65	58	206	193
Total.....	10,248	12,399	2,431	2,308	1,489	1,264	3,920	3,572

Very respectfully,

A. C. PATTERSON, M. D.,
Chief, Bureau Vital Statistics.

DR. WM. C. FOWLER,
Health Officer, District of Columbia.

APPENDIX J.

TABLE 1a.—Showing deaths and death rates in the District of Columbia during the calendar year 1918, arranged with reference to race and sex, and classified with reference to causes of death.

Calendar year 1918.														
Cause of death.		Total deaths.			General death rates.			Per-centage of each cause to total mortality.	Deaths by race and sex.				Total by sex.	
									White.		Colored.			
									Male.		Female.			
									Male.		Female.			
1. General diseases.														
1	Typhoid fever.....	21	27	48	0.067	0.258	0.115	0.501	14	7	11	16	25	23
2	Typhus fever.....													
3	Relapsing fever.....													
4	Malaria.....													
5	Smallpox.....	41	7	48	.131	.067	.115	.501	31	10	3	4	34	14
6	Measles.....	16	16	32	.051	.038	.067	.167	9	7	3	4	9	7
7	Scarlet fever.....	18	25	43	.058	.239	.103	.449	10	8	11	14	21	22
8	Whooping cough.....	37	2	39	.118	.019	.093	.407	28	9	1	1	20	10
9	Diphtheria and croup.....	1,577	451	2,028	5.041	4.313	4.857	21.104	802	715	198	253	1,060	968
10	Influenza (grippe).....													
11	Miliary fever.....													
12	Asiatic cholera.....													
13	Cholera nostras.....	1	1	2	.003	.002	.010	.010	1	1	1	1	1	1
14	Dysentery.....	2	3	5	.006	.028	.012	.052	1	1	3	3	1	4
15	Plague.....													
16	Yellow fever.....													
17	Leucocy.....													
18	Erysipelas.....	10	2	12	.032	.019	.029	.125	8	2	1	1	9	3
19	Other epidemic diseases.....													
20	Purulent infection and septicaemia.....	23	3	26	.074	.029	.062	.271	14	9	1	2	15	11
21	Glanders.....													
22	Anthrax.....													
23	Rabies.....													
24	Tetanus.....	4	3	7	.013	.028	.017	.073	3	1	2	1	5	2
25	Actinomyces.....	1	1	2	.003	.009	.003	.011	1	1	1	1	1	1
26	Pellagra.....													
27	Beriberi.....	5	4	9	.016	.038	.022	.094	5	5	1	3	1	8

TABLE 1a.—Showing deaths and death rates in the District of Columbia during the calendar year 1918, arranged with reference to race and sex, and classified with reference to causes of death—Continued.

Cause of death.		Calendar year 1918.											
		Total deaths.			General death rates.			Percentage of each cause to total mortality.		Deaths by race and sex.			
		Total.			Total.	Colored.	White.	Total.	Per-centage of each cause to total mortality.	Deaths by race and sex.			
										White.		Colored.	
		White.	Col-ored.	Total.	White.	Col-ored.	Total.	White.	Col-ored.	Male.	Fe-male.	Male.	Fe-male.
1. General diseases—Continued.													
Tuberculosis:													
28 Pulmonary.....	301	346	647	942	3.308	1.550	6.752	182	119	189	157	371	276
29 Miliary.....	5	17	22	.005	.103	.053	.230	4	1	9	8	13	9
30 Meningeal.....	19	26	45	.041	.086	.070	.219	8	11	8	2	16	13
31 Abdominal.....	14	10	24	.035	.085	.050	.219	5	6	4	6	9	12
32 Spinal.....	4	2	6	.013	.019	.014	.063	3	1	2	1	5	1
33 Of joints.....	2	3	5	.008	.029	.012	.032	2	2	2	1	2	3
34 Of other organs.....	5	1	6	.016	.010	.011	.062	2	3	1	3	3	3
35 Disseminated.....							.012			2	2	2	2
36 Ricketts.....							.039						
37 Syphilis:													
1. Adults.....	14	17	31	.045	.103	.074	.324	7	7	11	6	18	13
2. Congenital.....	3	19	22	.010	.182	.053	.229	2	1	8	11	10	12
38 Gonorrheal infection.....													
39 Cancer of buccal cavity:													
1. Jaw.....	4	4	8	.013	.038	.019	.083	3	1	3	1	6	2
2. Lip.....	1	1	2	.003	.009	.005	.021	1	1	1	1	2	2
3. Tongue.....	4	1	5	.013	.010	.012	.052	3	1	1	1	4	1
40 Cancer of—													
1. Liver.....	49	10	59	.156	.096	.141	.616	13	36	7	3	20	39
2. Oesophagus.....	4	1	5	.013	.009	.012	.052	4	1	1	1	5	5
3. Pharynx.....	1	1	2	.003	.002	.002	.010	1	1	1	1	1	1
4. Stomach.....	60	22	82	.192	.210	.197	.856	31	29	11	11	42	40
41 Cancer of—													
1. Intestines.....	37	5	42	.118	.048	.101	.438	15	22	1	4	16	26
2. Peritoneum.....							.021				2		2
42 Cancer of—													
1. Ovary.....	3		3	.010		.007	.031						3
2. Uterus.....	35	33	68	.112	.315	.163	.710						68
3. Vagina.....	1		1	.004		.003	.010						1
4. Vulva.....	1		1	.003		.002	.010						1
43 Cancer of breast.....	36	13	49	.115	.124	.117	.511						48

Cancer of—		7	1	8	.022	.010	.019	.084	5	2	1	5	3
1. Face.....		1	1	1	.003		.003	.011	1			1	
2. Nose.....		1											
Cancer of—													
1. Abdomen.....		4		4	.013		.010	.042	2	2		2	2
2. Antrum.....		1		1	.003		.002	.010	1	1		1	1
3. Arm.....		1		3	.010		.007	.031		3			3
4. Bladder.....		18	1	19	.038	.009	.045	.198	15	3	1	16	3
5. Brain.....		2		2	.006		.005	.021		2			2
6. Chest.....		2		2	.007		.003	.021		2			2
7. Glands.....		1		1	.003		.003	.011		1			1
8. Groin.....		1	1	1		.010	.002	.011			1		1
9. Kidney.....				1		.009	.003	.010		1		1	1
10. Knee.....		1		1	.003		.002	.011	1			1	1
11. Larynx.....		1	1	2	.003	.010	.005	.021	1	1		2	2
12. Lung.....		3		3	.010		.007	.031	2	1		1	1
13. Mediastinum.....		4		4	.003		.010	.042	3	1		3	3
14. Neck.....		1	1	2	.013	.009	.005	.021	1		1	1	1
15. Pancreas.....		1	4	12	.025	.039	.029	.125	5	3	1	6	6
16. Parotid.....		1		1	.004		.002	.010					1
17. Pelvis.....		4		4	.013		.010	.041	1	3		1	3
18. Penis.....		1	1	2	.003		.005	.021	1	1		2	1
19. Pleura.....		1		1	.003		.002	.011		1			1
20. Prostate.....		5	1	6	.016	.009	.014	.063	5	1		6	3
21. Throat.....		5		5	.016		.012	.052	2	3		2	3
22. Thyroid.....		1	1	1		.010	.003	.010		1		1	1
23. Trachea.....		1		1	.003		.002	.011	1			1	1
24. Vertebra.....		1		1	.004		.002	.010		1			1
25. Visceral.....		1	1	1	.003		.002	.011				1	1
Papilloma, vesical.....		1		1	.003		.002	.010	1			1	1
46 Rheumatism, acute.....		12	1	13	.038	.009	.031	.136	7	5	1	7	6
47 Rheumatism, chronic, and gout.....		9	2	11	.029	.019	.026	.115	2	7	1	3	8
48 Scurvy.....													
49 Diabetes.....		52	14	66	.106	.134	.158	.689	22	30	6	28	38
50 Exophthalmic goiter.....		6	1	7	.019	.010	.017	.073		6	1		7
51 Addison's disease.....		1		1	.003		.002	.011		1		1	1
52 Leukemia.....		3	1	4	.010	.009	.010	.042	1	2		1	3
53 Anaemia.....		22	3	25	.070	.029	.060	.261	11	11	1	12	13
Other general diseases:													
1. Acidosis.....		3		3	.010		.007	.031	2	1		2	1
2. Amyloid disease.....		1	1	1	.003		.002	.010	1			1	1
3. Autoinfection.....		1		1	.003	.010	.005	.021		1		1	1
4. Haemophilia.....		1	1	2	.003	.009	.005	.021		1		2	2
5. Purpura hemorrhagica.....		3		3	.010		.007	.031	1	2		1	2
6. P'tomain (not food).....		1		1	.003		.002	.011	1			1	1
Alcoholism.....		5		5	.016		.012	.052	5			5	5
Lead poisoning, chronic.....													
Other occupational poisoning.....													
Salivation.....													
Total general diseases.....		2,553	1,080	3,639	8,162	10,384	8,720	37,977	1,367	1,186	509	577	1,763

	76	Otitis media.....	2	5	7	.007	.048	.017	.073	2	252	108	3	4	3
		Total diseases of nervous system and organs of special sense.....	526	245	771	1.681	2.343	1.847	8.047	274			137	382	389
		III. Diseases of circulatory system.													
77		Pericarditis.....	4	2	6	.013	.019	.014	.063	3	1	1	1	4	2
78		Endocarditis and myocarditis (under 60 years).....	88	95	183	.281	.908	.438	1.910	46	42	43	52	89	94
79		Organic heart disease (valvular).....	533	276	809	1.703	2.640	1.938	8.443	291	242	136	140	427	382
80		Angina pectoris.....	22	5	27	.070	.048	.065	.282	15	7	3	2	18	9
81		Aneurism.....	8	6	14	.026	.057	.034	1.146	7	1	5	1	12	2
82		Arteriosclerosis.....	170	25	195	.543	.239	.467	2.035	86	84	12	13	98	97
83		Embolism and thrombosis.....	18	6	24	.058	.058	.058	.250	8	10	5	1	13	11
84		Phlebitis.....	2		2	.006	.058	.005	.021	1				1	1
85		Varices.....	2	2	4	.007	.019	.010	.042		2	1	1	1	3
		Thymus gland, Hypertrophy of.....	1		1	.003		.002	.010		1				1
		Adams-Stokes disease.....	1		1	.004		.002	.011	1					
		Epistaxis.....	1		1	.003		.002	.010		1				1
		Total diseases of circulatory system.....	830	417	1,267	2.717	3.988	3.035	13.223	458	392	206	211	664	603
		IV. Diseases of respiratory system.													
86		Diseases of nasal fossae.....													
87		Laryngitis, acute.....	5		5	.016		.012	.052	4	1			4	1
88		Papilloma of larynx.....	1		1	.003		.002	.010	1				1	1
		Cystic goiter.....		1	1		.009	.002	.011				1		
89		Hyperthyroidism.....	4		4	.013		.010	.042	3	1			3	1
90		Bronchitis, acute.....	21	12	33	.067	.115	.079	.344	11	10	7	5	18	15
91		Bronchitis, capillary.....	3	19	22	.010	.182	.053	.230	1	2	11	8	12	10
92		Bronchitis, chronic.....	30	7	37	.096	.067	.089	.386	11	19	2	5	13	24
93		Pneumonia, broncho (under 1 year).....	45	73	118	.144	.688	.280	1.221	26	19	45	28	71	47
94		Pneumonia, broncho (1 year and over).....	210	139	369	.671	1.520	.887	3.861	117	93	68	91	185	184
95		Pneumonia, lobar (under 1 year).....	15	21	36	.048	.201	.086	.376	10	5	10	11	20	16
96		Pneumonia, lobar (1 year and over).....	445	330	775	1.422	3.155	1.857	8.088	256	189	191	130	447	328
97		Empyema.....	9	5	14	.029	.048	.034	1.146	9		4	1	15	1
98		Pleurisy.....	5	6	11	.016	.057	.026	.115	3	2	4	2	7	4
99		Pulmonary congestion.....	7	3	10	.022	.029	.024	.104	2	5	1	2	3	7
100		Pulmonary oedema.....	4		4	.013		.010	.042	1	3			1	3
101		Pulmonary gangrene.....	1		1	.003		.002	.010	1				1	
102		Asthma, bronchial.....	4	2	6	.013	.019	.014	.063	1	3	1	1	2	4
103		Pulmonary emphysema.....													
104		Anthracosis.....	1		1	.004		.002	.011					1	
105		Pulmonary abscess.....	9		9	.029		.022	.094	6	3			6	3
106		Pulmonary fibrosis.....	1		1	.003		.002	.010					1	1
107		Pulmonary hemorrhage.....	2	6	8	.006	.058	.019	.083	1	1	3	3	4	4
		Total, diseases of respiratory system.....	822	644	1,466	2.628	6.157	3.512	15.299	405	357	347	297	812	654

115	Cholangitis..... Cholecystitis..... Cholelithiasis..... Hepatitis..... Diseases of spleen..... Peritonitis, acute..... Abscess of diaphragm..... Pancreatitis.....	1 3 2 4 9 1 1 2	18 .048 .003 .013 .029 1 3 3	1 1 1 1 1 1 1 1	.000 .028 .019 .014 .039 .010 .003 .007	.011 .033 .021 .063 . 136 010 .031	7 8 2 3 6 1 1	1 1 1 1 2 1 1	1 2 1 3 8 1 2			
	Total diseases of digestive system	336	578	1,074	2,314	1,384	183	153	119	123	302	276
VI. Nonvenereal diseases of genito-urinary system.												
119	Nephritis, acute.....	36	43	.115	.411	.189	16	20	20	23	36	43
120	Nephritis, chronic.....	378	246	1,208	2,352	1,495	229	149	122	124	351	273
121	Cystitis.....											
122	Other diseases of kidneys and annexa:											
	1. Hydronephrosis.....	1		.003		.002	1				1	
	2. Pyelitis.....	5		.016		.012	3	2			3	2
	3. Pyelonephritis.....		3		.029	.007			3		3	
	4. Pyonephrosis.....	6		.019		.014	5	1			5	
	5. Tumor of kidney/s.....	1		.003		.003		1				1
123	Renal calculi.....	4	1	.003	.010	.012	3	1	1	1	4	1
124	Cystitis.....	10	3	.032	.028	.031	9	1	1	2	10	3
125	Diseases of urethra.....											
126	Diseases of prostate:											
	1. Prostatic hypertrophy.....	6	6	.019	.057	.029	6		6		12	
	2. Prostatitis.....	5	1	.016	.069	.014	5		1		6	
127	Epididymitis.....	1	1	.004		.002	1				1	
128	Uterine hemorrhage (nonpuerperal).....											14
129	Uterine fibroids.....	6	8	.019	.077	.034	146	6		8		3
130	Pelvic abscess.....	1	2	.003	.019	.007	931	1		2		1
131	Uterine prolapse.....	1	1	.003		.002	10	1		1	1	1
132	Ovarian cysts.....	1	1	.009	.003	.003	11					1
133	Ovarian papilloma.....	1	1	.004		.002	10	1			1	1
	Intraligamentous cysts.....	1	1		.010	.003	11				1	1
	Pyosalpinx.....	7	9	.022	.085	.038	167	7		9	16	
	Diseases of breast (nonpuerperal).....											
	Total non-venereal diseases of genito-urinary system	469	324	793	3,097	1,899	278	191	154	170	432	361
VII. The puerperal state.												
134	Accidents of pregnancy:											
	1. Abortion, self-induced.....	3	1	.010	.009	.010	.042			1		4
	2. Abortion, spontaneous.....	3	3	.028	.007	.031		3		3		3
	3. Ectopic gestation.....	1	1	.029	.007	.032				3		3
	4. Hyperemesis.....	2	1	.003	.002	.010		1		1	1	2
	5. Miscarriage.....	1	2	.006	.005	.021		2				1
135	Placenta previa.....		1	.010	.003	.011		1		1		1
	Puerperal hemorrhage.....	1	1	.003	.002	.010						

VII. The puerperal state.

Accidents of pregnancy:						
1. Abortion, spontaneous.....	3	1	4	.010	.002	.042
2. Abortion, surgically induced.....	3	3	3	3	.028	.031
3. Ectopic gestation.....	3	3	3	3	.029	.032
4. Hyperemesis.....	1	1	1	.003	.010	.010
5. Miscarriage.....	2	2	2	.006	.005	.021
Placenta previa.....	1	1	1	1	.010	.011
Puerperal hemorrhage.....	1	1	1	.003	.002	.010

IX. Diseases of bones and organs of locomotion.

146	Diseases of bones: 1. Mastoiditis..... 2. Necrosis of jaw..... 3. Sinusitis..... Arthritis..... Amputations..... Bursitis.....	6 1 2 4	6 1 2 2	.019 .003 .007 .013	.014 .002 .005 .015	.063 .021 .063	4 1 1	2 2 3	4 1 3	2 1 3	7
	Total diseases of bones and organs of locomotion.....	13	2	.042	.019	.036	6	7	2	8	7
150	X. Malformations. Congenital malformation: 1. Atrophy of liver..... 2. Cleft palate..... 3. Hydrocephalus..... 4. Microcephalus..... 5. Obstruction, gall bladder..... 6. Open foramen ovale..... 7. Pyloric stenosis..... 8. Spina bifida.....	1 2 1 1 12 1 5	1 2 1 1 5 1 5	.003 .006 .003 .004 .038 .003 .003 .016	.002 .005 .003 .002 .003 .041 .002 .002	.010 .021 .011 .010 .177 .010 .032	1 1 1 1 7 2	1 1 1 1 5 1 3	1 1 1 1 2 10 2	1 1 1 1 1 1 3	14
	Total malformations.....	23	6	.073	.057	.070	11	12	4	2	14
151	XI. Early infancy. Congenital debility, icterus, etc.: 1. Atrophy, infantile..... 2. Congenital debility..... 3. Icterus neonatorum..... 4. Marasmus..... 5. Prematurity..... 6. Uremia.....	8 38 168 1	2 4 13 90	.026 .026 .121 .003	.019 .038 .057 .124 .537 .003	.021 .125 .063 .532 2.692 .010	3 3 21 95 1	5 4 17 73 40	3 2 3 10 50	2 1 2 3 1	2
152	Other causes peculiar to early infancy: 1. Asphyxia neonatorum..... 2. Atelectasis..... 3. Cyanosis..... 4. Hemophilia (under 3 months)..... 5. Injury at birth..... 6. Melæna neonatorum..... 7. Placenta previa (child)..... 8. Prolonged labor..... 9. Sepsis neonatorum..... 10. Umbilical hemorrhage..... Exposure.....	7 9 5 5 2 4 2 1	4 7 3 2 4 2 2 4 1 4	.022 .029 .019 .016 .016 .006 .013 .007 .003 .039 .009	.038 .038 .005 .028 .012 .005 .042 .009 .003 .042 .002	.115 .167 .021 .083 .032 .021 .042 .042 .010 .042 .011	4 3 2 2 4 2 1 1 1 1 1	3 6 3 1 3 1 1 1 1 1 1	3 4 2 2 3 2 2 3 3 1 1	1 4 2 4 2 1 3 1 1 1	178
	Total early infancy.....	250	138	.799	1.318	.930	138	112	72	66	210

TABLE 1a.—Showing deaths and death rates in the District of Columbia during the calendar year 1918, arranged with reference to race and sex, and classified with reference to causes of death—Continued.

Calendar year 1918.													
Cause of death.	Total deaths.			General death rates.			Per-centage of each cause to total mortality.	Deaths by race and sex.				Total by sex.	
	White.		Total.	White.	Col-ored.	Total.		White.		Colored.			
								Male.	Fe-male.	Male.	Fe-male.		
XII. Old age.	65	28	93	0.208	0.268	0.223	0.970	21	44	11	17	32	61
XIII. External causes.	4	1	5	.013	.009	.012	.052	.....	4	.....	.....	.....	5
	3	.....	3	.010	.....	.007	.031	2	1	.....	.....	2	1
	2	.....	2	.006	.....	.005	.021	2	.....	.....	.....	2	.....
	4	.....	2	.007	.....	.005	.021	1	1	.....	.....	1	.....
	2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Suicide, gas:	1	.....	1	.003	.....	.002	.010	1	.....	.....	.....	1	.....
	11	2	13	.035	.019	.031	.136	6	5	2	.....	8	5
Suicide:	11	1	12	.035	.010	.029	.126	7	4	1	.....	8	4
	6	.....	6	.019	.....	.014	.053	3	3	.....	.....	3	.....
157	Drowning.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
158	Firearms.....	20	3	23	.054	.028	.055	20	3	.....	.....	23	3
159	Cutting instruments.....	5	.....	5	.016	.019	.073	5	.....	.....	.....	.....	.....
160	Jumping from high places.....	3	.....	3	.010	.....	.007	3	.....	.....	.....	.....	.....
161	Crushing.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
162	Other forms.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
163	Poisoning.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
164	Other accidental poisoning:	2	.....	2	.005	.....	.005	1	1	.....	.....	1	.....
165	1. Alcohol.....	.....	1	1	.....	.009	.002	.....	.....	.....	.....	.....	.....
	2. Bichloride of mercury.....	1	.....	1	.003	.....	.010	1	.....	.....	.....	1	.....
	3. Coal tar drug.....	1	.....	1	.003	.....	.002	.....	1	.....	.....	.....	.....
	4. Opium.....	1	.....	1	.003	.....	.010	1	.....	.....	.....	.....	.....
	5. Phenol.....	1	.....	1	.003	.....	.002	.....	1	.....	.....	.....	.....
	6. Phosphorus.....	1	.....	1	.....	.010	.003	.....	.....	1	.....	.....	.....
166	Conflagration.....	1	.....	1	.004	.....	.003	.....	.....	.....	.....	.....	.....
167	Burns and scalds.....	21	16	37	.067	.153	.089	7	14	3	13	10	27

TABLE 1b.—Showing deaths in the District of Columbia during the calendar year 1918, arranged with reference to months, and classified with reference to race, sex, and causes of death.

Classi- fication No.	Cause of death.	Total deaths year 1918.	January.				February.				March.				April.				May.				June.				
			White.		Colored.		White.		Colored.		White.		Colored.		White.		Colored.		White.		Colored.		White.		Colored.		
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
			I. General diseases.																								
1	Typhoid fever.....	48	1	3			1	1									1										
2	Typhus fever.....																										
3	Relapsing fever.....																										
4	Malaria.....																										
5	Smallpox.....																										
6	Measles.....	48	4		1	7	3	1			2	2	1	2	8	5			8	1	1						
7	Scarlet fever.....	16	2	1																							
8	Whooping cough.....	43																									
9	Diphtheria and croup.....	39	3	1		2	2				1			1													
10	Influenza (grippe).....	2,028	6	5	3	7	2	5		4	8	1	1	5	2	6		2	1	2							
11	Miliary fever.....																										
12	Asiatic cholera.....																										
13	Cholera nostras.....	1																									
14	Dysentery.....	5				1																					
15	Plague.....																										
16	Yellow fever.....																										
17	Leprosy.....																										
18	Erysipelas.....	12							1	2	1				2	1											
19	Other epidemic diseases.....																										
20	Purulent infection and septicemia.....	26	1			2	2		1	3	1				1	1		1							2		
21	Glanders.....																										
22	Anthrax.....																										
23	Rabies.....																										
24	Tetanus.....																										
25	Actinomycosis.....	7																									
26	Pellagra.....	1																									
27	Beriberi.....	9							1											1							
	Tuberculosis:																										
28	Pulmonary.....	647	18	12	18	11	12	6	18	9	24	17	17	19	13	11	18	14	15	11	25	12	14	6	19	12	
29	Miliary.....	22				1	2		2																		
30	Meningeal.....	29				1																					
31	Abdominal.....	21	2	1					2	1		1			2	1	1	1						1	1	1	
32	Spinal.....	6																									
33	Of joints.....	5																									
34	Of other organs.....	6																									
35	Disseminated.....																										

[illegible]

II. Diseases of nervous system and organs of special sense.

[illegible]

[illegible]

122	Other diseases of kidneys and annexa:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</
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VII. *The puerperal state.*

[illegible]

VIII. Diseases of skin and cellular tissue.

[illegible]

TABLE 1b.—Showing deaths in the District of Columbia during the calendar year 1918, arranged with reference to months, and classified with reference to race, sex, and causes of death—Continued.

Classi- sifi- cation No.	Cause of death.	Total deaths year 1918.	January.				February.				March.				April.				May.				June.			
			White.		Colored.		White.		Colored.		White.		Colored.		White.		Colored.		White.		Colored.		White.		Colored.	
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
			VIII. Diseases of skin and cellular tissue—Continued.																							
143	Carbuncle.....	5		1																						
144	Abscess, extra peritoneal.....	1						1																		
	Abscess, multiple.....	1		1																						
	Abscess, perineal.....	1																								
	Abscess, shoulder.....	1																								
145	Cellulitis.....	3																								
	Bed sores.....	1																								
	Eczema.....	1																								
	Total diseases of skin and cellular tissue.....	30	2	1			2	1	1		2		3	1	1		2	1	2							1
			IX. Diseases of bones and organs of locomotion.																							
146	Diseases of bones:	6																								
	1. Mastoiditis.....	1																								
	2. Necrosis of jaw.....	2																								
	3. Sinusitis.....	6																								
147	Arthritis.....																									
148	Amputations.....																									
149	Bursitis.....																									
	Total diseases of bones and organs of locomotion.....	15						1				2		1		2	1								1	
			X. Malformations.																							
150	Congenital malformation:																									
	1. Atrophy of liver.....	1																								
	2. Cleft palate.....	2																								
	3. Hydrocephalus.....	1																								
	4. Microcephalus.....	1																								
	5. Obstruction, gall bladder.....	1																								
	6. Open foramen ovale.....	17	1				1		1				1		2	1									1	
	7. Pyloric stenosis.....	1																								
	8. Spina bifida.....	5																								
	Total malformations.....	29	1				1		1		2	2	1	1	2	3								1		1

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TABLE 1b.—Showing deaths in the District of Columbia during the calendar year 1918, arranged with reference to months, and classified with reference to race, sex, and causes of death—Continued.

Classi- fi- cation No.	Cause of death.	Total deaths year 1918.	July.		August.		September.		October.		November.		December.	
			White.		Colored.		White.		Colored.		White.		Colored.	
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
VII. The puerperal state.														
134	Accidents of pregnancy: 1. A abortion, self-induced..... 2. A abortion, spontaneous..... 3. Ectopic gestation..... 4. Hyperemesis..... 5. Miscarriage..... Placenta previa..... Puerperal hemorrhage..... Other causes of labor: 1. Cesarean section..... 2. Malpresentation..... 3. Obstetrical shock..... 4. Pregnant uterus, rupture of.....	4 3 3 1 2 1 1 3 1 1 1 1			1	1								
135	Puerperal septicemia.....	17		2		1								
136	Puerperal nephritis.....	18		3			1		3					
137	Puerperal embolism.....	1		1										
138	Puerperal insanity.....													
139	Puerperal diseases of breast.....													
140	Total, the puerperal state.....	57	7		2	2	3	2	4		1		2	
VIII. Diseases of skin and cellular tissue.														
142	Gangrene of extremities.....	13	1										1	
143	Gangrene of testicle.....	2												
144	Scrotal phlegmon.....	5			1			1						
145	Carbuncle.....	1												
	Abscess, extra peritoneal.....	1												
	Abscess, multiple.....	1												
	Abscess, perineal.....	1												
	Abscess, shoulder.....	1												
	Cellulitis.....	3												
	Bed sores.....	1												
	Eczema.....	1												
	Total diseases of skin and cellular tissue.....	30	1		2			1					1	1

170	Firearms (accidental).....	5	2						1										1
171	Carting instruments (accidental).....	1	1																
172	Falls (accidental).....	39		1	1	1	2	1	5	1	1	2	3	5	3			1	1
173	Injury in mines (accidental).....																		
174	Elevator (accidental).....	2	1			1													
175	Machinery.....																		
	Traumatism by vehicles, railways, &c.:.....																		
	1. Automobile accidents.....	67	4	1	1	1	5	1	1	1	1	2	1	5	1	8	1	6	2
	2. Caving in of bank (accident).....	1																	
	3. Crushed wounds.....	1																	
	4. Fire-hose carriage, struck by (accident).....	1																	
	5. Knocked down by running man (accident).....	1																	
	6. Railroad accident, steam.....	9	2																
	7. Railroad accident, street.....	20				1	2	1										1	1
	8. Roller-coaster accident.....	1																	
	9. Run over by vehicles (accidental).....	3	1																
	10. Struck by board (accidental).....	1																	
	Injured by animals.....																		
176	Starvation.....																		
177	Exposure to cold.....																		
178	Stroke.....	2																	
179	1. Exposure.....	11							1	3	5	2							
180	Lightning stroke.....	1							1										
181	Electricity.....	1																	
182	Electricity.....	39	1						2	2								1	3
183	Homicide, firearms.....	8							1	1								1	1
184	Homicide, cutting instruments.....																		
	Homicide, other forms:.....																		
	1. Abortion, criminal.....	1																	
	2. Assault, fractured skull.....	6							1									1	1
	3. Blow of fist.....	1																	
	4. Burning.....	1																	
	5. Run down by wagon.....	1																	
	6. Struck by automobile.....	3	1															1	1
	7. Struck by electric car.....	1																	
	8. Struck by piece of iron pipe.....	1																	
	Fracture of jaw, accident.....	1																	
185	Other external violence.....																		
186	1. Asphyxia, regurgitation of food (accident).....	1																	
	2. Exposure.....	1																	
	3. Falling body, struck by.....	3																	
	4. Moningitis, traumatic.....	1																	
	5. Strangulation by food.....	2							1										
	Total external causes.....	450	25	7	7	2	19	8	12	4	17	2	10	3	13	2	12	1	25
																		10	15
																		3	20
																		13	8
																		6	6

TABLE 1b.—Showing deaths in the District of Columbia during the calendar year 1918, arranged with reference to months, and classified with reference to race, sex, and causes of death.—Continued.

Classi- fication No.	Cause of death.	Total deaths year 1918.	July.				August.				September.				October.				November.				December.			
			White.		Colored.		White.		Colored.		White.		Colored.		White.		Colored.		White.		Colored.		White.		Colored.	
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	XIV. Ill-defined diseases.																									
187	Ill-defined organic diseases.																									
188	Sudden death.																									
189	Ill-defined, or unspecified:																									
	1. Diphtheria.	2			1																					
	2. General debility.	1																								
	3. Marasmus (over 1 year of age).	3																								
	Total ill-defined causes.	6			1																					
	SUMMARY.																									
	I. General diseases.	3,639	36	33	35	33	52	27	29	28	52	48	23	25	683	528	186	217	91	84	20	30	157	191	40	62
	II. Diseases of nervous system and organs of special sense.	771	21	12	6	12	24	27	6	6	21	13	11	12	27	22	13	8	27	23	7	9	21	19	8	11
	III. Diseases of circulatory system.	1,267	30	28	13	16	23	26	9	14	34	22	16	13	40	35	15	22	27	28	17	22	42	43	24	22
	IV. Diseases of respiratory system.	1,406	34	7	4	9	9	5	6	2	30	14	10	10	129	109	68	59	18	18	25	16	30	47	36	48
	V. Diseases of digestive system.	1,578	37	21	25	20	20	23	24	25	19	14	11	7	13	14	8	8	9	13	3	9	13	4	8	7
	VI. Nonvenereal diseases of genito-urinary system.	763	22	16	15	19	13	16	6	12	22	13	13	10	18	12	14	14	26	10	13	8	20	11	14	18
	VII. The purpuræ.	57	7					2		2				3		4				1				2		
	VIII. Diseases of skin and cellular tissue.	30	1		1	1	2							1									1		1	
	IX. Diseases of bones and organs of locomotion.	15	3												1				1							
	X. Fractures.	29	1					2						2					1							
	XI. Infantile.	388	12	12	6	4	13	6	8	6	12	7	5	8	24	14	7	8	9	10	6	1	11	15	8	6
	XII. Scabies.	93	2	4	1	2	4	3	1				1		4	2	3	3						5	1	2
	XIII. External causes.	430	25	7	7	2	19	8	12	4	17	2	10	3	13	2	12	1	25	10	15	3	20	13	8	6
	XIV. Ill-defined diseases.	6																								
	Total deaths, all causes.	9,582	200	182	119	120	179	146	101	99	209	139	100	90	961	746	326	341	236	197	106	98	314	352	149	182

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XVII. *The puerperal state.*

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TABLE 1c.—Showing deaths in the District of Columbia during the calendar year 1918, arranged with reference to ages of decedents and classified with reference to race, sex, and causes of deaths—Continued.

Classi- fication No	Cause of death.		5 to 9 years.		10 to 19 years.		20 to 24 years.		30 to 39 years.		40 to 49 years.		50 to 59 years.		60 to 69 years.		70 to 79 years.		80 to 89 years.		90 years and over.	
			W. C.		W. C.		W. C.		W. C.		W. C.		W. C.		W. C.		W. C.		W. C.			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
IV. Diseases of respiratory system.																						
86																						
87																						
88																						
89																						
90																						
91																						
92																						
93																						
94																						
95																						
96																						
97																						
98																						
99																						
100																						
V. Diseases of digestive system.																						

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VI. Nonvenereal diseases of genito-urinary system.

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other accidents of labor.									
	1	2	3	4	5	6	7	8	9
	1	2	3	4	5	6	7	8	9
1. Cesarean section.....	1								
2. Malpresentation.....	1								
3. Obstetrical shock.....	1								
4. Pregnant uterus, rupture of.....	1								
Puerperal septicemia.....	1	6	3	4	2				
Puerperal nephritis.....	2	4	4	1					
Puerperal embolism.....									
Puerperal insanity.....									
Puerperal diseases of breast.....									
Total the puerperal state.....	3	17	12	13	7	2			
VII. Diseases of skin and cellular tissue.									
Gangrene of extremities.....									
Gangrene of testicle.....									
Scrotal phlegmon.....									
Carbuncle.....									
Abscess, extraperitoneal.....									
Abscess, multiple.....									
Abscess, perineal.....									
Abscess, shoulder.....									
Cellulitis.....									
Bed sores.....									
Eczema.....									
Total diseases of skin and cellular tissue.....	1		2	1					
IX. Diseases of bones and organs of locomotion.									
Diseases of bones:									
1. Myeloditis.....									
2. Neuritis of jaw.....									
3. Sinusitis.....									
Arthritis.....									
Amputations.....									
Bursitis.....									
Total diseases of bones and organs of locomotion.....	1	1	1	2		2			

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TABLE 1d.—Showing deaths in the District of Columbia during the calendar year 1918, arranged with reference to marital relations and to nativity and classified with reference to race, sex, and causes of death—Continued.

Classi- fication No.	Cause of death.	Marital relations.										Nativity.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		Married.					Single.					Widow or widower.					Unknown.					District of Columbia.					Other parts of the United States.					Foreign.					Unknown.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		W.		C.			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.

[illegible]

[illegible]

TABLE 1d.—Showing deaths in the District of Columbia during the calendar year 1918, arranged with reference to marital relations and to nativity and classified with reference to race, sex, and causes of death—Continued.

Classification
No.

Cause of death.

Marital relations.

Nativity.

Other parts
of the
United States.

District of
Columbia.

Unknown.

Widow or
widower.

Single.

Married.

W.

C.

W.

C.

W.

C.

W.

C.

W.

C.

W.

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XIII. External causes—Continued.

[illegible]

171

JANUARY.

[illegible]

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological

FEBRUARY.

Day of month.	Color.	Communicable diseases.				Diarrheal diseases (dysentery excluded).	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Violence.				All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis, epidemic.	Pellagra.	Rheumatism, acute.	Sunstroke.	Accidents and negligence.	Suicides.	Homicides, criminal.					
1	W. C.									3						5	9	14	1
2	W. C.								1	2						2	5	1	1
3	W. C.	1								2						2	10	23	1
4	W. C.									4						2	11	24	3
5	W. C.									3		1				1	14	2	2
6	W. C.									4						10	18	19	1
7	W. C.		2							1		1				8	14	32	1
8	W. C.									2						10	13	21	2
9	W. C.		1							2		1				10	22	37	2
10	W. C.									2						17	24	37	2
11	W. C.									2						6	13	18	1
12	W. C.									1						5	6	15	3
13	W. C.									2						7	12	20	2
14	W. C.									3						4	8	11	1
15	W. C.									2						8	10	15	2
16	W. C.									1						4	5	11	1
17	W. C.	1	2		1	1				6						9	11	21	1
18	W. C.									1						7	6	27	5
19	W. C.									1						3	21	27	1
20	W. C.									2						11	17	22	1
21	W. C.									2						2	5		
22	W. C.									2						7	14	20	
23	W. C.									2						4	6	10	
24	W. C.									2						11	18	29	
25	W. C.									3						7	11	17	
26	W. C.									2						6	10	17	
27	W. C.									1						3	7	12	
28	W. C.									2						5	8	13	
29	W. C.									2						4	6	10	
30	W. C.									2						7	9	12	
31	W. C.									2						3	8	11	
32	W. C.									2						12	15	24	
33	W. C.									1						4	9	13	
34	W. C.									1						4	6	10	
35	W. C.									1						4	7	11	
36	W. C.									1						11	15	24	
37	W. C.									3						5	9	14	
38	W. C.									4						6	10	16	
39	W. C.									3						3	4	7	
40	W. C.									2						3	9	14	
41	W. C.									2						4	5	9	
42	W. C.									1						10	12	18	
43	W. C.									1						2	6	8	
44	W. C.									1						12	16	27	
45	W. C.									7						7	11	18	
Total	W. C.	1	10	2	4	18	6	1	1	2	3	2	2	3	1	241	382	614	23
	C.	1	1			27	1			56		8		3		126	232	93	

FEBRUARY.

[illegible]

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological MARCH.

Day of month.	Color.	Communicable diseases.						Diarrheal diseases (dysentery excluded).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Violence.			All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.	
		Typhoid fever.	Measles.		Whooping cough.	Diphtheria.	Pulmonary tuberculosis.					Accidents and negligence.	Suicides.	Homicides, criminal.					
			Scarlet fever.				Meningitis, epidemic.												Pollagra.
								Under 2 years.	2 years and over.	Bronchitis (all forms).									
1.....	W. C. C.	1				1				2		1		13	18	20	3		
2.....	W. C. C.					1	1			4				1	2	1	1		
3.....	W. C. C.							1		2				9	15	22	2		
4.....	W. C. C.	1							1	1		1		10	12	23	2		
5.....	W. C. C.		1				2		1	1		1		4	15	27	2		
6.....	W. C. C.					1	1							5	7	3	1		
7.....	W. C. C.					1	1			2		1		6	8	15			
8.....	W. C. C.					1	1			3				4	8				
9.....	W. C. C.	1				2	1			5				4	8	19	1		
10.....	W. C. C.	1				1				4		1		4	7	24	2		
11.....	W. C. C.					1	2			2				8	13	21			
12.....	W. C. C.					2	3			1		1		5	8	21			
13.....	W. C. C.					5	3			2				8	14	24	1		
14.....	W. C. C.		1			3	2			1				8	16	2			
15.....	W. C. C.					3	3			2		1		7	11	27			
16.....	W. C. C.					3	2			3				7	12	21	2		
17.....	W. C. C.					1	1		1	4				4	9	21	2		
18.....	W. C. C.	1				2				3				7	13	21			
19.....	W. C. C.					3	1			2		1		4	8	36	1		
20.....	W. C. C.					1	1			2				16	22	36			
21.....	W. C. C.		1			3	1			8		1		5	14				
22.....	W. C. C.					1	1			4				15	23	34	1		
23.....	W. C. C.					1	1			4				5	11	27	2		
24.....	W. C. C.					1	1			4				16	21	27	1		
25.....	W. C. C.					1	1			2				3	6	25	1		
26.....	W. C. C.					1	1			4				9	13	25			
27.....	W. C. C.					1	1			4		2	2	7	12	35	1		
28.....	W. C. C.	1				3	1			6				8	16	35			
29.....	W. C. C.					1	1			8				12	22	33	1		
30.....	W. C. C.					1	1			8		2	2	5	11	23	2		
31.....	W. C. C.					2	3			4				9	18	29			
Total..	W. C. C.	1	4	5	1	1	41	1	1	9	11	5	3	333	502	811	38		
		3				36	2	4	4	6	9	1	1	147	309		29		

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological

APRIL.

Day of month.	Color.	Communicable diseases.								Diarrheal diseases (dysentery excluded).				Violence.				All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.			
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis, epidemic.	Pellagra.	Rheumatism, acute.	Under 2 years.		Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Accidents and negligence.					Suicides.	Homicides, criminal.	
											Under 2 years.	2 years and over.					Under 2 years.							2 years and over.
1	W.						1						1	3					1	9	12	21	3	
2	W.		1				1				1		1	3						4	9	15	2	
3	W.			1			2						1	1						10	18	26	1	
4	W.		1	1			2						1	3			1			13	22	30	2	
5	W.				1		1	1					1	2			1			6	9	15	1	
6	W.		2	1					1				2	2						9	15	21	1	
7	W.										1		2	3						5	6	21	1	
8	W.						2				1		3	3			1	1		11	17	26	2	
9	W.						2						3	3						2	9	22	1	
10	W.		1				2					1	1	1						11	15	22	2	
11	W.						1	1					3	3					1	5	7	22	1	
12	W.		2				1				1		2	2						10	16	22	2	
13	W.						1						2	2						5	6	22	3	
14	W.		1				1						2	2						14	21	25	1	
15	W.		1				2						2	2						1	1	17	1	
16	W.						1			1			2	2			1			8	11	23	1	
17	W.												2	2						2	6	21	1	
18	W.						1						2	2						5	8	23	2	
19	W.												4	4			1			12	14	27	2	
20	W.						1						1	1					1	19	25	33	3	
21	W.						3					1	2	2			1	2		11	21	30	1	
22	W.		1	1			1						2	2						3	9	24	3	
23	W.		1				1						1	1						12	5	19	1	
24	W.						2	1					1	1						19	22	33	3	
25	W.						1						2	2						5	11	17	1	
26	W.						1						1	1			1			6	17	25	1	
27	W.						2						2	2						5	8	23	2	
28	W.						1						1	1						10	14	24	1	
29	W.						2						1	1			1			6	9	23	3	
30	W.						2						3	3						3	4	12	1	
31	W.						2						1	1						8	11	19	1	
32	W.						2						1	1			2			3	8	11	1	
33	W.						1						1	1						6	9	18	1	
34	W.						1						1	1			1	1		5	9	22	1	
35	W.		1				1				1		1	1			2			11	13	22	2	
36	W.		1				3					1	1	1						5	9	22	2	
37	W.		2				2	1				1	1	1			1			12	15	27	2	
38	W.						1													3	7	22	1	
39	W.						1						1	1			1			5	12	22		
40	W.						1						1	1						8	10	22		
41	W.		1				1						1	1			2			12	16	29		
42	W.						1						1	1						11	13	21	1	
43	W.						1				1		1	1			2			5	8	20	1	
44	W.						2						3	3						11	16	29	1	
45	W.						1						1	1			1			8	13	21	2	
46	W.						1						1	1						11	20	28	1	
47	W.						1				1		1	1			1			4	8	22	2	
48	W.						1						3	3			2			12	16	25	1	
Total	W.		13	5	1	24	3	3		5	4	5	5	58			17	7	2	309	458	705	37	
	C.		1		2	32	3				3	1	3	46			9	3		143	247		33	

year 1918, arranged with reference to race, cause of death, and corresponding daily conditions—Continued.

APRIL.

Mean barometer (actual).	Mean relative humidity.	Temperature (exposed bulb).				Mean wet bulb.	Mean dew point.	Direction of wind.		Total movement of wind.	Rainfall (inches).	Day of month.
		Maximum.	Minimum.	Range.	Mean.			S a. m.	S p. m.			
29.79	62	75	50	25	62	53.6	47.5	S.....	S.....	139	T.	1
29.82	63	78	50	28	64	60.9	50.0	SW....	W.....	108	.....	2
29.82	86	71	50	21	60	51.8	50.0	SE.....	N.....	170	0.05	3
29.98	68	54	42	12	48	40.9	31.0	N.....	NW....	228	.....	4
30.34	36	52	33	19	42	33.5	18.5	N.....	NW....	173	.....	5
30.38	34	62	31	31	46	38.8	25.0	E.....	SE.....	123	.....	6
30.45	65	60	43	17	52	43.2	37.0	SE.....	SE.....	179	.....	7
30.21	88	61	45	16	53	49.4	47.5	SE.....	SE.....	104	.22	8
30.01	94	53	37	16	45	38.2	37.5	N.....	N.....	401	1.44	9
30.00	90	42	38	4	40	39.3	38.0	NE....	NE....	567	1.57	10
30.02	92	38	32	6	35	33.3	31.5	NE....	N.....	332	.46	11
29.93	84	38	32	6	35	33.9	31.5	NW....	NW....	227	.35	12
30.04	73	45	34	11	40	37.8	32.5	NW....	NW....	150	T.	13
30.10	52	65	37	28	51	42.2	32.5	NW....	W.....	162	.....	14
30.15	40	71	37	34	54	45.6	34.0	SW....	N.....	109	.....	15
29.99	71	76	42	34	59	52.2	48.0	SE.....	SW....	94	T.	16
29.74	83	81	52	29	66	60.2	58.5	SE.....	SW....	116	T.	17
29.82	62	76	57	19	66	58.2	51.5	SW....	NW....	133	.03	18
30.22	66	66	48	18	57	51.6	56.0	NE.....	E.....	182	.01	19
30.18	86	49	44	5	46	43.6	41.5	NE.....	NE.....	278	1.05	20
29.70	89	62	43	19	52	50.0	48.5	N.....	SE.....	135	.97	21
29.82	57	65	48	17	56	48.2	40.0	W.....	SW....	229	.....	22
29.89	76	77	47	30	62	53.8	50.5	SE.....	SW....	154	.01	23
30.08	44	67	46	18	55	44.7	33.5	NW....	N.....	241	T.	24
30.20	57	59	44	15	52	42.3	34.5	NE.....	SE.....	153	.02	25
30.18	50	57	44	13	50	42.5	32.5	NE.....	NE.....	200	.....	26
30.16	46	66	46	20	56	45.0	33.5	NE.....	NE.....	167	.....	27
30.04	61	71	46	25	58	50.8	44.5	N.....	SE.....	160	.....	28
29.88	68	75	56	19	66	58.1	56.0	SE.....	SE.....	141	.01	29
29.84	78	74	54	20	64	56.5	55.0	NE.....	N.....	99	.39	30

year 1918, arranged with reference to race, cause of death, and corresponding daily conditions—Continued.

MAY.

[illegible]

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological

JUNE.

Day of month.	Color.	Communicable diseases.							Diarrhœal diseases (dysentery excluded).		Violence.	All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis, epidemic.	Pellagra.	Rheumatism, acute.					
1.....	W. C.				1	1					1	10	14	16	.....
2.....	W. C.					1						1	1	13	1
3.....	W. C.											1	6	7	1
4.....	W. C.	1										1	1	1	2
5.....	W. C.											1	5	5	1
6.....	W. C.					1						1	8	9	2
7.....	W. C.					1						1	5	6	1
8.....	W. C.					1		1				1	11	12	1
9.....	W. C.					1						1	1	1	1
10.....	W. C.	1										1	4	5	1
11.....	W. C.											1	7	8	3
12.....	W. C.				1							1	5	6	1
13.....	W. C.					1						1	11	12	1
14.....	W. C.	1				3						1	5	6	1
15.....	W. C.					3						2	6	8	1
16.....	W. C.				1							1	12	13	1
17.....	W. C.					2						2	5	7	3
18.....	W. C.	1				1						1	8	9	1
19.....	W. C.					1						1	11	12	3
20.....	W. C.					2						1	5	7	2
21.....	W. C.	1				1						1	7	8	2
22.....	W. C.					1						2	5	7	1
23.....	W. C.					1						1	3	4	1
24.....	W. C.					1						3	8	11	1
25.....	W. C.	1				1						1	6	7	1
26.....	W. C.					1						1	4	5	1
27.....	W. C.					1						1	8	9	2
28.....	W. C.					1						1	4	5	1
29.....	W. C.					1						1	10	11	3
30.....	W. C.	1				1						1	7	8	1
Total	W. C.	2	1	4	4	20	31	1	1	1	2	221	288	301	35

year 1918, arranged with reference to race, cause of death, and corresponding daily conditions—Continued.

JUNE.

[illegible]

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological
JULY.

Day of month.	Color.	Communicable diseases.							Diarrheal diseases (dysentery excluded).	Violence.							All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis, epidemic.		Fellagra.	Rheumatism, acute.	Strokes.	Accidents and negligence.	Suicides.	Homicides, criminal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		Under 2 years.	2 years and over.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological

AUGUST.

Day of month.	Color.	Communicable diseases.					Diarrheal diseases (dysentery excluded).	Violence.					All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.							
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.		Pulmonary tuberculosis.	Meningitis, epidemic.	Pellagra.	Rheumatism, acute.	Under 2 years.					2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Strokes.	Accidents and negligence.	Suicides.	Homicides, criminal.
1.....	W.				1		1													5	7	16	1
2.....	C.				1		1													5	9	2	2
3.....	W.						2				1									6	10	18	1
4.....	C.																			5	8	2	3
5.....	W.						1													7	7	11	1
6.....	C.						2													3	4	1	6
7.....	W.						1				4									6	13	16	2
8.....	C.						3													2	3	1	1
9.....	W.										2									8	15	23	2
10.....	C.						1				1									4	8	1	1
11.....	W.						4				1									3	10	18	2
12.....	C.						3				2									2	31	45	5
13.....	W.						1				3									7	11	4	1
14.....	C.																			11	13	17	2
15.....	W.										1									1	4	1	1
16.....	C.						1				1									17	20	25	1
17.....	W.						1				1									1	5	2	2
18.....	C.						1				1									9	14	1	1
19.....	W.						1				1									5	8	2	2
20.....	C.						1				1									6	7	11	1
21.....	W.						1				1									1	3	1	1
22.....	C.						1				1									5	6	1	1
23.....	W.						1				1									6	7	12	2
24.....	C.						1				1									5	5	7	14
25.....	W.						1				1									5	7	7	2
26.....	C.						1				1									6	6	5	3
27.....	W.						1				1									2	11	16	2
28.....	C.						1				1									7	5	1	4
29.....	W.						1				1									4	11	17	2
30.....	C.						1				1									6	7	10	1
31.....	W.						1				1									1	3	3	1
32.....	C.						1				1									2	2	2	2
33.....	W.						1				1									1	5	15	1
34.....	C.						1				1									3	13	3	1
35.....	W.						1				1									7	9	15	1
36.....	C.						1				1									5	6	1	1
37.....	W.						1				1									7	10	20	2
38.....	C.						1				1									4	10	3	1
39.....	W.						1				1									5	5	15	1
40.....	C.						1				1									3	14	1	1
41.....	W.						1				1									3	1	1	1
42.....	C.						1				1									2	7	1	1
43.....	W.						1				1									1	2	1	1
44.....	C.						1				1									2	5	12	1
45.....	W.						1				1									5	6	1	1
46.....	C.						1				1									6	7	12	2
47.....	W.						1				1									1	1	4	3
48.....	C.						1				1									1	3	1	1
49.....	W.						1				1									3	1	1	1
50.....	C.						1				1									2	7	1	1
51.....	W.						1				1									1	2	1	1
52.....	C.						1				1									2	5	12	1
Total.....	W.	3	1	2	1	29	1	1	27	4	1	11	7	4	17	4	2	218	325	56	104	200	49
	C.	2	2	2	2	31	1	1	34	2	1	7	7	7	4	1	4	104	200	525	104	200	49

year 1918, arranged with reference to race, cause of death, and corresponding daily conditions—Continued.

AUGUST.

Mean barometer (actual).	Mean relative humidity.	Temperature (exposed bulb).				Mean wet bulb.	Mean dew point.	Direction of wind.		Total movement of wind.	Rainfall (inches).	Day of month.
		Maximum.	Minimum.	Range.	Mean.			S. a. m.	S. p. m.			
30.04	74	82	58	24	70	63.2	60.0	W....	SE....	92	.....	1
30.00	84	86	66	20	76	70.2	68.5	SW...	SW...	93	.....	2
29.98	66	85	69	16	77	68.0	63.5	NW...	NE....	104	.....	3
30.00	88	85	68	17	76	72.9	72.0	SE....	SE....	158	T.	4
29.88	72	98	74	24	86	76.0	73.0	SW...	SE....	130	0.05	5
29.93	59	106	78	28	92	77.8	73.0	SW...	SW...	77	.....	6
30.06	74	104	73	31	88	75.0	72.0	SW...	W....	149	.32	7
29.93	75	96	72	24	84	77.8	76.5	NW...	S.....	132	.....	8
29.86	62	94	76	18	85	74.2	70.0	SW...	SW...	163	.....	9
30.00	88	88	74	14	81	73.9	73.0	NE....	SW...	125	.24	10
30.03	84	89	73	16	81	71.8	70.0	SW...	N.....	86	T.	11
30.03	82	96	71	25	84	74.1	73.0	N.....	E.....	99	.01	12
30.08	80	95	74	21	84	73.5	71.5	N.....	NW...	121	.01	13
30.02	81	97	71	26	84	73.6	71.5	SW...	N.....	131	.34	14
30.06	59	85	66	19	76	64.6	59.0	N.....	N.....	144	.....	15
30.04	64	86	63	23	74	66.8	62.0	N.....	SW...	87	.....	16
30.10	72	72	65	7	68	62.5	59.0	NW...	N.....	103	T.	17
30.27	84	68	62	6	65	60.9	59.0	NE....	N.....	139	.15	18
30.38	64	76	61	15	68	60.8	53.5	NE....	SE....	174	.....	19
30.37	70	80	53	27	66	60.0	56.0	W....	N.....	74	.....	20
30.20	77	83	54	29	68	62.4	58.5	SW...	SW...	84	.....	21
30.09	76	87	64	23	76	62.2	64.5	S.....	SW...	90	.....	22
30.06	71	87	68	19	78	68.2	64.5	SW...	SE....	124	.....	23
30.00	76	91	65	26	78	69.2	66.5	SW...	SE....	89	.....	24
29.92	80	87	70	17	78	72.8	70.5	NE....	NE....	81	.....	25
29.88	82	93	70	23	82	73.8	72.0	SW...	SE....	88	.18	26
30.11	76	83	69	14	76	68.9	66.0	N.....	E.....	151	T.	27
30.21	84	77	70	7	74	68.9	67.0	E.....	SE....	224	.16	28
30.04	85	87	70	17	78	72.2	70.5	SW...	W....	107	.....	29
30.04	82	87	67	20	77	66.4	64.5	NE....	S.....	112	.10	30
29.93	81	86	64	22	75	66.2	63.5	SW...	NW...	108	.32	31
.....

¹ Highest ever recorded.

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological
NOVEMBER.

Day of month.	Color.	Communicable diseases.					Diarrheal diseases (dysentery excluded).	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Violence.			All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.								Accidents and negligence.	Suicides.	Homicides, criminal.				
1.....	W.					1				2				1	2		17	23	35	1
2.....	C.					1				1				2	1		8	12	1	1
3.....	W.			1				1	1	1					1		17	21	29	1
4.....	C.									1					1		14	17	1	1
5.....	W.									2					1		4	8	25	2
6.....	C.									1					1		11	12	24	1
7.....	W.					1											10	12		
8.....	C.					1											13	16	24	
9.....	W.					1				2				4			4	8		
10.....	C.					2				3							10	15	19	1
11.....	W.					1											4	4		1
12.....	C.					1				1				5			10	16	23	2
13.....	W.					1											6	7		
14.....	C.					1				1				1	1		9	14	17	2
15.....	W.					1			1	1							3	3		
16.....	C.					1				2				1			13	17	28	
17.....	W.					1		1		1					1		7	11		
18.....	C.									2							8	10	12	1
19.....	W.								1	3				2			0	2		
20.....	C.					3				3				1			11	17	27	1
21.....	W.					1				1							3	10		
22.....	C.					2				1							7	11	20	1
23.....	W.					2				2							7	9		
24.....	C.					2				3						1	6	10	22	1
25.....	W.					2				2							8	10	13	1
26.....	C.					2				1							1	3		
27.....	W.					1				1							12	15		4
28.....	C.					1				1							3	5	20	
29.....	W.					1				1							2	5		5
30.....	C.					2				2				1			15	19	26	
1.....	W.					1				1							4	7		
2.....	C.					2				2							10	13	16	
3.....	W.					1				1				1			2	3		
4.....	C.					1				1							2	3		
5.....	W.					1				1							6	8	11	
6.....	C.					2				1							9	10	16	2
7.....	W.					2				1							2	3		
8.....	C.					2				2							2	3		
9.....	W.					2				2							1	3		
10.....	C.					2				1							2	8	11	
11.....	W.					2				1							12	15		4
12.....	C.					2				1							2	5	20	
13.....	W.					1				1							2	5		5
14.....	C.					1				1							15	19	26	
15.....	W.					2				2							4	7		
16.....	C.					2				1				1			10	13	16	
17.....	W.					1				1							2	3		
18.....	C.					1				1							6	8	11	
19.....	W.					2				1							9	10	16	2
20.....	C.					2				1							1	16		
21.....	W.					2				2							13	18	22	1
22.....	C.					1				2				2	1		2	4		
23.....	W.					1				1							7	11	22	1
24.....	C.					1				1				2	1		13	19	31	1
25.....	W.					2				3							6	12		
26.....	C.					2				1				2			7	13	19	
27.....	W.					1				1							2	6		
28.....	C.					1				2							2	6		
29.....	W.					2				1							9	12	15	1
30.....	C.					1				2							1	3		
1.....	W.					1											16	16	21	3
2.....	C.					1				2				1			4	5		1
3.....	W.					1				3				1			6	10	18	1
4.....	C.					2				1							5	8		
5.....	W.					1				1				1			15	17	24	
6.....	C.					2				2							3	7		
7.....	W.					1				1				1			10	16		1
8.....	C.					2				2							3	5	21	
9.....	W.					1				1							11	13		
10.....	C.					1				2							6	8		
11.....	W.					2				1							9	12	16	
12.....	C.					1											4	4		
Total..	W.			2	4	24		6	6	29	1	24	9	324	433	637				32
	C.				17	1		2	2	39		13	1	123	204	15				15

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological

DECEMBER.

Day of month.	Color.	Communicable diseases.								Diarrheal diseases (dysentery excluded).	Violence.															
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis, epidemic.	Pellagra.		Rheumatism, acute.	Under 2 years.		2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Accidents and negligence.		Suicides.	Homicides, criminal.	All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
1.	W. C.										1			1	1				1				7	9	18	3
2.	W. C.						2							3					1	1		5	9	20	1	
3.	W. C.	1		1			1							1					1	1		3	37	25	2	
4.	W. C.						3						1						1	1		12	14	20	3	
5.	W. C.						2			1			1						1	1		7	16	20	1	
6.	W. C.						1			1			1						1	1		11	4	25	1	
7.	W. C.	1					1			1			1						1	1		10	17	25	1	
8.	W. C.						1						2						2			14	15	2	1	
9.	W. C.	1					1						1						2			10	13	1	1	
10.	W. C.						1						1						2			10	17	25		
11.	W. C.						1						1						2			6	11	1		
12.	W. C.					2							2						2			12	19	30	2	
13.	W. C.						1						2						1			6	11	1		
14.	W. C.	1					1						3						1			10	14	25	2	
15.	W. C.						1						3						1			5	11	25	1	
16.	W. C.						1						3						1			21	22	29	2	
17.	W. C.						1						4						2			4	7	20	2	
18.	W. C.						1						4						1			24	28	35	2	
19.	W. C.						1						4						1			17	24	39	4	
20.	W. C.						1						4						1			4	15	2	1	
21.	W. C.						1						4						2			13	14	25	1	
22.	W. C.						1						4						2			24	27	39	2	
23.	W. C.						1						4						2			8	12	2	1	
24.	W. C.						1						4						2			20	28	37	2	
25.	W. C.						1						4						1			7	9	1		
26.	W. C.						1						4						1			15	20	28	2	
27.	W. C.						1						4						1			3	5	2	1	
28.	W. C.						1						4						1			17	21	30	2	
29.	W. C.						1						4						1			9	9	1		
30.	W. C.						1						4						1			1	1	24	2	
31.	W. C.						1						4						1			21	25	32	5	
Total.	W. C.	3	2		2	11	20			1	3	1	2	73	7	1	24	7	7	1	519	666	997	413		

year 1918, arranged with reference to race, cause of death, and corresponding daily conditions—Continued.

DECEMBER.

Mean barometer (actual).	Mean relative humidity.	Temperature (exposed bulb).				Mean wet bulb.	Mean dew point.	Direction of wind.		Total movement of wind.	Rainfall (inches).	Day of month.
		Maximum.	Minimum.	Range.	Mean.			s a. m.	s p. m.			
30.11	41	43	36	7	40	32	18	SW...	E.....	195	.....	1
30.06	71	46	32	14	39	31	28	NE...	S.....	120	T.	2
29.84	74	54	29	25	42	35	31	SW...	SW....	98	.....	3
29.80	52	46	35	11	40	34	24	W....	NW....	292	.....	4
30.04	50	41	34	7	38	30	20	NW...	SE....	265	.....	5
30.04	40	54	34	20	44	36	22	NW...	NW....	386	.....	6
30.20	60	47	30	17	38	33	26	SW...	S.....	102	.....	7
29.90	71	64	42	22	53	44	40	S.....	W.....	64	.....	8
29.94	81	67	45	22	56	49	46	.....	E.....	70	.22	9
30.28	58	45	38	7	42	35	27	NE...	E.....	206	.31	10
30.32	94	41	34	7	38	37	36	NE...	N.....	137	.81	11
30.42	86	54	39	15	46	39	36	NW...	NW....	75	.....	12
30.29	92	48	40	8	44	44	43	SE....	SE....	75	.01	13
29.96	97	60	46	14	53	53	52	SE....	SW....	104	1.47	14
30.10	82	58	44	14	51	50	46	.....	N.....	176	.01	15
30.35	61	44	40	4	42	37	30	N.....	N.....	276	.04	16
30.43	55	48	37	11	42	33	24	N.....	N.....	257	.....	17
30.61	42	49	32	17	40	30	17	N.....	NE....	126	.....	18
30.68	76	46	27	19	36	30	26	NW...	.....	48	.....	19
30.60	87	47	27	20	37	33	30	NW...	S.....	38	.....	20
30.46	86	53	36	17	44	40	38	N.....	N.....	58	.....	21
30.08	95	60	46	14	53	53	53	E.....	SW....	136	1.12	22
30.19	85	58	42	16	50	42	40	NE...	N.....	79	.....	23
29.85	94	44	41	3	42	42	42	NE...	W.....	131	.40	24
29.77	74	48	37	11	42	37	32	SW...	NW....	210	.....	25
30.02	66	37	30	7	34	29	23	NW...	NW....	273	T.	26
30.10	74	34	24	10	29	26	22	SW...	NW....	74	T.	27
29.94	71	35	26	9	30	27	22	NW...	W.....	134	T.	28
30.08	52	36	27	9	32	25	16	W.....	NW....	234	.....	29
30.34	66	38	25	13	32	26	20	NW...	SW....	112	.....	30
30.17	86	47	32	15	40	38	36	W.....	SW....	74	.26	31
.....

TABLE 3.—Deaths and average age of decedents in the District of Columbia, arranged according to age, sex, and race, with percentages to total corresponding mortality, from 1901 to 1918, inclusive.

WHITE MALES.

Year.	All ages.		5 years and over.		
	Deaths.	Average age.	Deaths.	Average age.	Percentage to all deaths.
		Yr. mo. d.		Yr. mo. d.	
1901-1905 ¹	1,875	41 8 7	1,487	52 3 24	79.31
1906-1910 ¹	2,021	43 11 17	1,633	54 3 1	80.80
1911-1915 ¹	2,229	47 7 8	1,725	55 10 13	85.01
1911.....	2,089	46 0 28	1,739	55 2 23	83.24
1912.....	1,976	46 5 3	1,658	55 2 19	83.91
1913.....	1,987	47 4 26	1,678	56 0 2	84.45
1914.....	1,955	49 9 28	1,712	56 9 23	87.57
1915.....	2,137	48 3 16	1,837	56 1 0	85.96
1916.....	2,214	48 7 6	1,911	56 2 11	85.31
1917.....	2,255	48 10 24	1,974	55 9 4	87.54
1918.....	3,430	41 1 1	3,019	46 6 23	88.02

Year.	20 years and over.			40 years and over.		
	Deaths.	Average age.	Percentage to all deaths.	Deaths.	Average age.	Percentage to all deaths.
		Yr. mo. d.			Yr. mo. d.	
1901-1905 ¹	1,398	54 9 29	74.56	1,057	62 9 9	56.37
1906-1910 ¹	1,548	56 6 20	76.58	1,217	63 7 6	60.61
1911-1915 ¹	1,650	58 0 12	81.32	1,342	63 11 27	66.14
1911.....	1,665	57 1 12	70.12	1,332	63 11 11	63.28
1912.....	1,587	57 1 15	80.31	1,261	63 9 12	63.81
1913.....	1,603	58 0 13	80.67	1,303	64 2 28	65.57
1914.....	1,642	58 8 20	83.99	1,371	64 2 8	70.13
1915.....	1,754	58 2 3	82.08	1,451	63 9 19	67.89
1916.....	1,824	58 3 29	82.38	1,511	64 0 8	68.24
1917.....	1,884	57 9 20	83.54	1,519	64 7 1	67.36
1918.....	2,813	49 0 1	82.01	1,621	63 3 25	47.23

WHITE FEMALES.

Year.	All ages.		5 years and over.		
	Deaths.	Average age.	Deaths.	Average age.	Percentage to all deaths.
		Yr. mo. d.		Yr. mo. d.	
1901-1905 ¹	1,519	43 5 16	1,221	52 3 14	80.38
1906-1910 ¹	1,603	45 5 27	1,308	55 7 22	81.47
1911-1915 ¹	1,636	49 7 10	1,405	57 5 19	85.88
1911.....	1,650	47 0 17	1,357	57 0 17	82.24
1912.....	1,630	50 1 4	1,412	56 10 12	83.62
1913.....	1,581	48 2 26	1,340	56 9 6	84.75
1914.....	1,538	50 7 16	1,343	57 10 23	87.32
1915.....	1,781	52 0 19	1,575	58 9 7	88.43
1916.....	1,739	51 9 7	1,508	59 6 28	86.71
1917.....	1,815	51 3 29	1,583	58 7 14	87.38
1918.....	2,832	42 9 18	2,478	48 9 11	87.50

¹ Annual average for 5-year period.

TABLE 3.—Deaths and average age of decedents in the District of Columbia, arranged according to age, sex, and race, with percentages to total corresponding mortality, from 1901 to 1918, inclusive—Continued.

WHITE FEMALES—Continued.

Year.	20 years and over.			40 years and over.		
	Deaths.	Average age.	Percentage to all deaths.	Deaths.	Average age.	Percentage to all deaths.
		Yr. mo. d.			Yr. mo. d.	
1901-1905 ¹	1,144	56 6 0	75.31	897	64 11 6	57.08
1906-1910 ¹	1,299	58 4 18	76.56	981	65 3 6	61.04
1911-1915 ¹	1,337	59 11 11	81.72	1,133	66 7 1	69.25
1911.....	1,288	59 5 5	78.06	1,037	66 6 24	62.85
1912.....	1,347	59 11 2	82.62	1,102	66 6 10	67.61
1913.....	1,263	59 4 22	79.89	1,020	66 2 20	64.52
1914.....	1,281	60 1 2	83.29	1,263	66 4 5	82.12
1915.....	1,504	60 10 26	84.45	1,245	67 3 6	69.90
1916.....	1,446	61 6 27	83.15	1,236	66 10 10	71.08
1917.....	1,509	60 11 29	83.14	1,277	66 7 13	70.36
1918.....	2,297	51 7 3	81.11	1,398	66 0 17	49.36

COLORED MALES.

Year.	All ages.		5 years and over.		
	Deaths.	Average age.	Deaths.	Average age.	Percentage to all deaths.
		Yr. mo. d.		Yr. mo. d.	
1901-1905 ¹	1,332	28 2 28	851	43 1 21	63.89
1906-1910 ¹	1,375	30 7 22	957	43 8 11	69.61
1911-1915 ¹	1,289	34 4 14	981	45 0 18	76.11
1911.....	1,319	33 0 6	986	43 11 6	74.75
1912.....	1,348	33 11 26	1,021	44 7 26	75.74
1913.....	1,253	34 7 26	939	45 11 23	74.94
1914.....	1,214	34 10 21	930	45 3 26	76.60
1915.....	1,311	35 3 22	1,027	45 4 9	78.41
1916.....	1,310	36 9 24	1,046	45 11 3	79.85
1917.....	1,321	36 8 1	1,054	45 9 0	79.78
1918.....	1,654	33 9 26	1,298	42 9 26	78.47

Year.	20 years and over.			40 years and over.		
	Deaths.	Average age.	Percentage to all deaths.	Deaths.	Average age.	Percentage to all deaths.
		Yr. mo. d.			Yr. mo. d.	
1901-1905 ¹	761	46 6 15	57.88	475	57 8 2	35.56
1906-1910 ¹	869	46 9 17	63.21	525	57 8 4	38.19
1911-1915 ¹	910	47 5 28	70.60	579	57 2 20	44.92
1911.....	901	46 10 4	68.31	548	57 7 8	41.55
1912.....	931	47 8 1	69.06	603	56 11 4	44.73
1913.....	880	48 2 7	70.23	573	57 7 28	45.73
1914.....	878	47 2 3	72.32	551	57 1 4	45.38
1915.....	961	47 7 8	73.30	618	56 9 26	47.14
1916.....	986	47 11 13	75.27	628	57 5 24	47.94
1917.....	988	47 1 23	74.79	638	57 1 7	48.29
1918.....	1,162	46 2 17	70.25	694	56 9 26	41.96

¹ Annual average for 5-year period.

TABLE 3.—Deaths and average age of decedents in the District of Columbia, arranged according to age, sex, and race, with percentages to total corresponding mortality, from 1901 to 1918, inclusive—Continued.

COLORED FEMALES.

Year.	All ages.			5 years and over.					
	Deaths.	Average age.			Deaths.	Average age.			Percentage to all deaths.
		Yr. mo. d.				Yr. mo. d.			
1901-1905 ¹	1,315	29	4	17	898	40	11	27	68.29
1906-1910 ¹	1,304	31	0	7	930	43	1	23	71.32
1911-1915 ¹	1,234	35	1	27	965	44	7	25	78.20
1911.....	1,245	33	6	22	919	45	2	7	73.81
1912.....	1,305	33	8	18	988	44	3	10	75.71
1913.....	1,185	34	11	3	919	44	10	12	77.55
1914.....	1,159	36	3	26	951	44	1	5	82.05
1915.....	1,276	37	3	5	1,046	45	1	1	81.97
1916.....	1,231	37	3	4	999	45	8	20	81.15
1917.....	1,296	38	2	21	1,073	46	0	12	82.79
1918.....	1,666	35	3	10	1,387	42	2	3	83.25

Year.	20 years and over.			40 years and over.						
	Deaths.	Average age.			Deaths.	Average age.			Percentage to all deaths.	
		Yr. mo. d.				Yr. mo. d.				
1901-1905 ¹	764	47	1	1	58.10	471	57	8	1	35.82
1906-1910 ¹	814	47	3	27	62.43	496	57	6	1	38.00
1911-1915 ¹	865	48	3	20	70.09	556	58	8	22	45.06
1911.....	828	48	7	21	66.51	533	59	5	11	42.81
1912.....	876	48	1	27	67.13	555	58	8	24	42.53
1913.....	829	48	3	1	69.96	527	58	11	5	44.47
1914.....	840	48	0	25	72.47	539	58	2	9	46.50
1915.....	952	48	4	28	74.61	626	58	4	3	49.06
1916.....	804	49	5	9	72.62	598	59	3	1	48.57
1917.....	981	49	0	28	75.69	656	58	6	29	50.62
1918.....	1,230	45	9	14	73.83	716	57	7	14	42.97

¹ Annual average for 5-year period.

TABLE 4.—Decedents (stillbirths excluded) in the District of Columbia under 1 year of age, by race, age, and by months, during the calendar year 1918.

Age.	January.		February.		March.		April.	
	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
Under 1 day.....	5	1	7	2	8	2	7	4
1 day to 1 week.....	9	8	6	5	6	4	7	6
1 week to 1 month.....	4	3	6	2	6	2	5	9
1 to 2 months.....	3	2	4	1	2	1	7	1
2 to 3 months.....	2	2	2	1	2	2	7	1
3 to 4 months.....	1	3	2	.....	2	3	2	.....
4 to 5 months.....	1	1	.....	1	1	3	4	1
5 to 6 months.....	.....	1	1	2	1	2	1	2
6 to 7 months.....	3	1	2	1	3	4	3	2
7 to 8 months.....	1	.....	2	1	3	3	.....	2
8 to 9 months.....	1	.....	3	1	.....	2	.....	1
9 to 10 months.....	1	2	4	.....	1	.....	.....	2
10 to 11 months.....	1	.....	.....	3	2	1	1	2
11 to 12 months.....	1	.....	.....	3	1	.....	.....	2
Total.....	33	24	39	23	38	29	37	33

TABLE 4.—*Decedents (stillbirths excluded) in the District of Columbia under 1 year of age, by race, age, and by months, during the calendar year 1918—Continued.*

Age.	May.		June.		July.		August.	
	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
Under 1 day.....	15	3	9	5	9	3	5	4
1 day to 1 week.....	5	6	5	7	7	4	5	7
1 week to 1 month.....	2	2	1	4	5	4	9	4
1 to 2 months.....	2	1	4	3	7	4	7	6
2 to 3 months.....	2	1	1	3	2	2	5	1
3 to 4 months.....	1	2	1	2	4	6	3	7
4 to 5 months.....			2	2	7	6	4	1
5 to 6 months.....		2	2	1	4	5	4	5
6 to 7 months.....		2	2	2	3	4	5	3
7 to 8 months.....	1	3	2	3	5	4	2	3
8 to 9 months.....		1			3	4	2	1
9 to 10 months.....		2			2	4		2
10 to 11 months.....		2	1	3	3		3	1
11 to 12 months.....		2				4	2	4
Total.....	28	29	30	35	61	54	56	49

Age.	September.		October.		November.		December.	
	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
Under 1 day.....	5	5	17	4	2	3	11	9
1 day to 1 week.....	10	6	16	10	13	3	10	5
1 week to 1 month.....	5	3	10	1	3		2	5
1 to 2 months.....	5	2	5	3	2		4	3
2 to 3 months.....	1	3	6	1	3	1	2	2
3 to 4 months.....	5	3	3	2	5	2	3	2
4 to 5 months.....	1	2	2	3		1	1	1
5 to 6 months.....	2	2	2	4	1	1	1	2
6 to 7 months.....			2	3	1		2	1
7 to 8 months.....	2		1	5	1	1		3
8 to 9 months.....	1		2	1		1	2	
9 to 10 months.....	1	2	5	3	1		1	3
10 to 11 months.....	2			6		1	1	
11 to 12 months.....	1		1	3		1	1	
Total.....	41	28	72	49	32	15	41	36

SUMMARY.

Age.	Deaths.			Percentage of—		
	White.	Colored.	All.	Whites under 1 year.	Colored under 1 year.	Total under 1 year.
Under 1 day.....	100	45	145	19.68	11.14	15.90
1 day to 1 week.....	99	71	170	19.49	17.57	18.64
1 week to 1 month.....	58	39	97	11.42	9.65	10.64
1 to 2 months.....	52	27	79	10.24	6.68	8.66
2 to 3 months.....	28	20	48	5.51	4.95	5.26
3 to 4 months.....	32	32	64	6.30	7.92	7.02
4 to 5 months.....	23	22	45	4.53	5.45	4.93
5 to 6 months.....	19	29	48	3.74	7.18	5.26
6 to 7 months.....	26	23	49	5.12	5.69	5.37
7 to 8 months.....	20	28	48	3.94	6.93	5.26
8 to 9 months.....	14	12	26	2.75	2.97	2.85
9 to 10 months.....	16	18	34	3.15	4.46	3.73
10 to 11 months.....	14	19	33	2.75	4.70	3.62
11 to 12 months.....	7	19	26	1.38	4.70	2.85
Total.....	508	404	912	100.00	100.00	100.00

TABLE 5.—*Number and age of decedents in the District of Columbia 70 years of age and over, during calendar year 1918.*

Age (years).	White.		Colored.		Total.	Age (years).	White.		Colored.		Total.
	Male.	Fe- male.	Male.	Fe- male.			Male.	Fe- male.	Male.	Fe- male.	
70.....	49	45	28	33	155	87.....	15	17	2	1	35
71.....	34	16	3	11	64	88.....	12	14	3	1	30
72.....	48	47	17	10	122	89.....	6	3	1	1	11
73.....	43	39	4	8	94	90.....	4	6	3	6	19
74.....	33	41	8	6	88	91.....	2	3	.....	.....	5
75.....	48	54	22	13	137	92.....	2	2	.....	.....	4
76.....	47	45	12	5	109	93.....	.....	4	.....	.....	4
77.....	38	35	5	7	85	94.....	.....	4	1	.....	5
78.....	41	35	6	9	91	95.....	.....	2	1	1	4
79.....	42	37	1	1	81	96.....	1	.....	1	.....	2
80.....	22	43	4	8	77	97.....	1	1	.....	.....	2
81.....	26	23	3	.....	52	98.....	1	1	.....	2	3
82.....	29	28	1	4	62	101.....	1	.....	.....	.....	1
83.....	15	21	2	2	40	102.....	.....	.....	.....	1	1
84.....	19	19	2	1	41	105.....	.....	.....	1	.....	1
85.....	13	20	3	4	40	108.....	.....	.....	1	.....	1
86.....	18	15	1	.....	34	111.....	.....	.....	.....	1	1
Total.....						Total.....					

TABLE 8.—*Places of interment or other disposition of remains in the District of Columbia during the calendar year 1918.*

Places of interment.	Persons dying in District of Columbia.			Persons brought into District of Columbia.		
	White.	Colored.	Total.	White.	Colored.	Total.
Adas Israel Cemetery.....	22	—	22	3	—	3
Above Shalom Cemetery.....	34	—	34	3	—	3
Anatomical Board.....	16	104	120	—	—	—
Arlington National Cemetery.....	352	38	400	88	10	98
Congressional Cemetery.....	687	1	688	91	—	91
Convent, Visitation, Cemetery.....	2	—	2	—	—	—
Everswetgrad Cemetery.....	13	—	13	2	—	2
Georgetown University Cemetery.....	1	—	1	—	—	—
Glenwood Cemetery.....	657	1	658	142	—	142
Harmony Cemetery.....	2	602	604	—	62	62
Holy Rood Cemetery.....	85	16	101	9	—	9
Lee's Sons' Crematorium.....	63	—	63	16	—	16
Methodist Cemetery.....	14	—	14	2	—	2
Moore's Cemetery.....	1	152	153	—	7	7
Mount Olivet Cemetery.....	864	241	1,105	112	9	121
Mount Zion Cemetery.....	6	431	437	2	11	13
National Capital Hebrew Cemetery.....	26	—	26	—	—	—
National Training School (Boys).....	—	1	1	—	—	—
Oak Hill Cemetery.....	152	—	152	46	—	46
Payne's Cemetery.....	—	487	487	—	35	35
Potter's Field.....	3	—	3	1	1	2
Prospect Hill Cemetery.....	185	—	185	26	—	26
Public Crematorium.....	120	138	258	15	2	17
Rock Creek Cemetery.....	450	—	450	137	—	137
Sent out of city.....	2,143	638	2,781	70	14	84
Soldiers' Home Cemetery.....	84	4	88	1	—	1
St. Elizabeths Cemetery.....	90	35	125	—	—	—
St. Mary's Cemetery.....	123	—	123	13	—	13
Talmud Torah.....	11	—	11	1	—	1
Union Burial Association.....	1	34	35	—	2	2
Veitch Cemetery.....	—	—	—	2	—	2
Washington Hebrew Cemetery.....	26	—	26	6	—	6
Woodlawn Cemetery.....	19	397	416	1	23	24
Total.....	6,232	3,320	9,552	789	176	965

TABLE 9.—*Estimated population, deaths (stillbirths excluded), and death rate in the District of Columbia, by race and calendar years, from 1901 to 1918.*

Year.	Population.			Deaths.			Death rates.		
	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
1901-1905 ¹	217,606	93,719	311,325	3,395	2,647	6,042	15.60	28.20	19.41
1906-1910 ¹	240,244	93,695	333,940	3,123	2,678	6,304	15.09	27.69	18.71
1911-1915 ¹	255,132	98,281	353,443	3,665	2,523	6,188	14.35	25.63	17.49
1911.....	251,409	98,119	349,568	3,739	2,564	6,303	14.87	26.12	18.03
1912.....	254,260	98,676	352,936	3,606	2,653	6,259	14.18	26.89	17.73
1913.....	255,153	98,144	353,297	3,568	2,438	6,006	13.98	24.84	16.99
1914.....	256,049	97,615	353,664	3,493	2,373	5,866	13.64	24.31	16.59
1915.....	258,940	98,809	357,749	3,918	2,587	6,505	15.13	26.18	18.18
1916.....	250,854	99,143	350,000	3,953	2,541	6,494	15.15	25.63	18.04
1917.....	293,329	102,618	395,947	4,070	2,617	6,687	13.88	25.50	16.89
1918.....	312,806	104,599	417,405	6,262	3,320	9,582	20.02	31.74	22.96

¹ Annual average for 5-year period.

TABLE 10.—Deaths (stillbirths excluded) in the District of Columbia of children under 1 year of age, by sex and color, and by months and years.

Calendar year.	January.						February.						March.					
	White.			Colored.			White.			Colored.			White.			Colored.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1901-1905 ¹	21	16	37	30	22	52	21	18	39	28	21	49	26	16	42	22	18	40
1906-1910 ¹	19	15	34	22	19	41	21	15	36	21	18	39	25	19	44	30	21	51
1911-1915 ¹	16	13	29	17	15	32	18	13	31	19	15	34	21	15	36	18	14	32
1911.....	18	17	35	21	16	37	14	9	23	22	16	38	15	18	33	12	12	24
1912.....	18	20	38	20	17	37	22	12	34	11	17	28	30	17	47	12	17	49
1913.....	20	13	33	14	22	36	21	14	35	20	16	36	19	11	30	21	15	36
1914.....	11	11	22	15	10	25	15	14	29	25	18	43	21	20	41	13	12	25
1915.....	12	7	19	16	9	25	17	17	34	17	8	25	20	8	28	32	16	48
1916.....	20	11	31	15	6	21	20	16	36	13	13	26	18	15	33	10	15	25
1917.....	21	11	32	17	19	36	15	12	27	11	11	22	12	17	29	16	16	32
1918.....	18	15	33	11	13	24	24	15	39	10	13	23	21	17	38	16	13	29

Calendar year.	April.						May.						June.					
	White.			Colored.			White.			Colored.			White.			Colored.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1901-1905 ¹	17	14	31	23	18	41	18	13	21	16	19	35	30	19	49	44	30	74
1906-1910 ¹	20	15	35	19	19	38	16	13	29	19	15	34	24	20	45	39	32	71
1911-1915 ¹	19	13	32	16	15	31	15	11	26	19	11	30	15	10	25	21	13	34
1911.....	22	16	38	15	15	30	23	10	33	17	12	29	14	13	27	18	7	25
1912.....	25	13	38	25	22	47	12	9	21	15	15	30	20	6	26	22	18	40
1913.....	16	14	30	14	12	26	14	8	22	14	9	23	18	17	35	35	19	54
1914.....	16	7	23	11	15	26	9	9	18	20	11	31	11	7	18	17	12	29
1915.....	17	15	32	15	12	27	17	17	34	17	9	26	11	9	20	16	10	26
1916.....	18	12	30	7	8	15	21	12	33	18	10	28	15	13	28	14	8	22
1917.....	12	16	28	13	11	24	11	7	18	8	10	18	14	12	26	10	8	18
1918.....	19	18	37	18	15	33	12	16	28	17	12	29	15	15	30	20	15	35

Calendar year.	July.						August.						September.					
	White.			Colored.			White.			Colored.			White.			Colored.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1901-1905 ¹	52	40	92	56	55	111	33	22	55	39	35	74	22	19	41	25	23	48
1906-1910 ¹	47	33	80	46	45	91	36	29	65	32	29	61	27	19	46	24	21	45
1911-1915 ¹	31	22	53	26	26	52	25	18	43	24	20	44	23	17	40	21	18	39
1911.....	50	39	89	34	44	78	40	27	67	27	30	57	17	22	39	24	15	37
1912.....	33	18	51	32	35	67	22	18	40	32	22	54	27	11	38	18	19	39
1913.....	33	24	57	26	24	50	18	13	31	22	12	34	19	16	35	21	21	42
1914.....	21	14	35	22	16	38	23	13	36	22	18	40	20	19	39	20	11	31
1915.....	20	14	34	18	12	30	24	18	42	19	18	37	31	16	47	21	24	45
1916.....	30	25	55	35	21	56	30	17	47	17	26	43	18	18	36	23	19	42
1917.....	20	11	31	21	17	38	32	20	52	24	17	41	23	17	40	17	18	35
1918.....	32	29	61	32	22	54	32	24	56	27	22	49	25	16	41	15	13	28

¹ Annual average for 5-year period.

TABLE 10.—Deaths (stillbirths excluded) in the District of Columbia of children under 1 year of age, by sex and color, and by months and years—Continued.

Calendar year.	October.						November.						December.					
	White.			Colored.			White.			Colored.			White.			Colored.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1901-1905 ¹	22	17	39	27	20	47	19	14	33	18	15	33	15	12	27	24	22	46
1906-1910 ¹	21	17	38	25	18	43	20	14	34	20	20	40	21	13	34	22	16	38
1911-1915 ¹	18	15	33	18	14	32	18	13	31	17	16	33	20	12	32	15	14	29
1911.....	18	19	37	26	18	44	22	10	32	17	20	37	23	14	37	13	16	29
1912.....	19	11	30	21	20	41	21	14	35	17	13	30	16	13	29	20	12	32
1913.....	15	13	28	15	13	28	13	17	30	14	20	34	22	12	24	16	13	29
1914.....	9	16	25	16	12	28	18	11	29	20	9	29	17	11	28	11	16	27
1915.....	28	18	46	14	17	31	15	13	28	19	16	35	24	10	34	15	10	25
1916.....	22	17	39	18	12	30	7	10	17	6	13	19	18	10	28	18	8	26
1917.....	18	13	31	11	16	27	18	10	28	16	16	32	15	16	31	17	17	34
1918.....	40	32	72	29	20	49	16	16	32	11	4	15	21	20	41	20	16	36

SUMMARY.

Calendar year.	White.		Colored.		Grand total.		
	Male.	Female.	Male.	Female.	White.	Colored.	Total.
1901-1905 ¹	297	218	353	297	515	650	1,165
1906-1910 ¹	297	225	319	273	522	592	1,114
1911-1915 ¹	239	172	231	193	411	424	835
1911.....	276	214	246	221	490	467	957
1912.....	265	162	245	227	427	272	899
1913.....	228	172	232	196	400	428	828
1914.....	191	152	212	160	343	372	715
1915.....	236	162	219	161	398	380	778
1916.....	237	176	194	159	413	353	766
1917.....	211	162	181	176	373	357	730
1918.....	275	233	226	178	508	404	912

¹ Annual average for 5-year period.

TABLE 11.—Births and deaths (stillbirths excluded) in the District of Columbia by races under 1 year of age and from 1 to 4 years, inclusive.

Years.	White.			Colored.			Total.		
	Births.	Deaths under 1 year.	Deaths 1 to 4 years.	Births.	Deaths under 1 year.	Deaths 1 to 4 years.	Births.	Deaths under 1 year.	Deaths 1 to 4 years.
1901-1905 ¹	3,429	519	168	1,980	650	246	5,409	1,169	414
1906-1910 ¹	4,632	522	163	2,268	592	200	6,900	1,114	363
1911-1915 ¹	4,794	411	123	2,234	424	154	7,028	835	277
1916.....	5,042	413	121	2,216	353	143	7,258	766	264
1917.....	5,291	373	136	2,228	357	133	7,519	730	269
1918.....	6,063	508	257	2,158	404	231	8,221	912	488

¹ Average for 5-year period.

TABLE 12.—Deaths (stillbirths excluded) of infants under 1 day, and from 1 day to 1 week old, in the District of Columbia, with corresponding death rates based on registered births, during the calendar years 1901–1918, inclusive.

Years.	Registered births.			Deaths under 1 day.			Death rates under 1 day.			Deaths 1 to 7 days.			Death rates 1 to 7 days.		
	W.	C.	All.	W.	C.	All.	W.	C.	All.	W.	C.	All.	W.	C.	All.
1901–1905 ¹	3,429	1,980	5,409	70	54	124	20.4	27.3	23.0	76	82	158	22.2	41.4	29.2
1906–1910 ¹	4,632	2,268	6,900	78	53	131	16.8	23.4	18.9	88	69	157	19.0	30.4	22.8
1911–1915 ¹	4,794	2,234	7,028	81	51	132	16.9	22.8	18.7	70	62	132	14.6	27.8	18.8
1916.....	5,042	2,216	7,258	89	43	132	17.6	19.4	18.2	74	62	136	14.7	28.0	18.7
1917.....	5,291	2,228	7,519	78	44	122	14.7	19.7	16.2	75	66	141	14.2	29.6	18.8
1918.....	6,063	2,158	8,221	100	45	145	16.5	20.9	17.6	99	71	170	16.3	32.9	20.7

¹ Annual average for 5-year period.

TABLE 13.—Deaths (stillbirths excluded) and death rates in the District of Columbia, by race and by months, from 1901 to 1918, inclusive.

Calendar year.	January.					February.					March.				
	White.		Colored.		rate per 100,000 total population.	White.		Colored.		rate per 100,000 total population.	White.		Colored.		rate per 100,000 total population.
	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.			
1901-1905 1...	323	148	251	268	184	397	141	228	243	171	332	152	226	241	179
1906-1910 1...	338	140	237	245	170	325	135	224	231	163	343	142	257	264	178
1911-1915 1...	344	135	224	228	161	340	133	217	220	157	374	146	240	244	174
1911.....	355	141	230	234	167	323	128	212	215	153	370	147	215	219	167
1912.....	345	144	229	232	168	356	140	211	214	160	358	141	248	251	171
1913.....	311	122	226	230	152	345	135	222	226	160	340	133	216	220	157
1914.....	353	138	208	213	159	310	121	219	224	150	368	144	245	251	173
1915.....	335	129	228	231	157	367	142	219	222	164	432	167	276	279	198
1916.....	309	153	246	248	179	353	135	208	209	156	418	160	234	236	181
1917.....	437	149	259	252	176	367	125	227	221	150	399	136	260	253	166
1918.....	461	147	261	249	173	382	122	232	221	147	502	160	309	295	194

Calendar year.	April.					May.					June.				
	White.		Colored.		rate per 100,000 total population.	White.		Colored.		rate per 100,000 total population.	White.		Colored.		rate per 100,000 total population.
	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.			
1901-1905 1...	287	132	217	231	162	251	115	201	214	145	253	116	231	246	155
1906-1910 1...	314	131	228	235	161	282	117	206	213	145	280	116	223	230	149
1911-1915 1...	327	128	227	231	156	289	113	202	205	139	261	102	193	196	128
1911.....	330	131	221	225	158	311	119	205	208	145	261	103	176	179	125
1912.....	324	127	231	234	157	257	101	232	235	138	254	100	192	195	126
1913.....	321	126	209	213	150	306	120	190	203	143	287	112	210	214	140
1914.....	296	116	233	239	150	297	116	179	183	135	247	96	182	186	121
1915.....	364	140	239	242	168	283	109	195	197	134	254	98	206	208	129
1916.....	353	135	226	228	161	310	119	197	199	141	271	104	173	174	123
1917.....	344	117	217	211	142	334	114	188	183	132	294	100	181	176	120
1918.....	458	146	247	236	169	330	105	220	210	132	298	95	220	210	124

¹ Annual average for 5-year period.

TABLE 13.—Deaths (stillbirths excluded) and death rates in the District of Columbia, by race and months, from 1901 to 1919, inclusive—Continued.

Calendar. year.	July.					August.					September.				
	White.		Colored.		rate total population.	White.		Colored.		rate total population.	White.		Colored.		rate total population.
	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.			
1901-1905 1...	314	144	282	300	191	253	116	227	242	154	237	109	186	198	136
1906-1910 1...	322	134	268	277	175	267	111	216	223	143	264	110	194	201	136
1911-1915 1...	299	117	221	224	147	258	101	205	208	131	261	102	187	190	127
1911.....	366	146	252	257	177	265	105	210	214	137	255	101	190	193	127
1912.....	270	106	254	257	148	284	112	233	236	146	235	92	185	187	118
1913.....	303	119	218	222	147	245	96	177	180	119	262	103	178	181	125
1914.....	260	102	191	196	128	239	93	190	195	121	258	101	186	191	126
1915.....	300	116	189	191	137	257	99	215	218	132	294	114	198	200	138
1916.....	298	114	248	250	152	265	102	223	225	136	282	108	217	219	139
1917.....	260	89	217	211	120	307	105	209	204	130	291	99	227	221	131
1918.....	352	113	239	228	141	325	104	200	191	126	348	111	190	182	128

Calendar year.	October.					November.					December.				
	White.		Colored.		rate total population.	White.		Colored.		rate total population.	White.		Colored.		rate total population.
	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.			
1901-1905 1...	270	124	198	211	150	271	125	185	197	146	297	138	217	231	165
1906-1910 1...	278	116	205	212	143	280	117	196	203	141	334	130	224	232	166
1911-1915 1...	282	110	207	210	138	300	118	201	204	142	330	129	200	212	150
1911.....	301	119	237	241	154	294	117	211	215	144	318	126	205	209	150
1912.....	294	116	229	232	148	278	109	202	205	136	331	130	207	210	152
1913.....	260	102	189	192	127	287	112	211	215	141	301	118	183	187	137
1914.....	246	96	179	183	120	306	120	183	187	138	313	122	178	182	139
1915.....	308	119	200	202	142	337	130	196	198	149	387	149	226	230	171
1916.....	303	116	182	183	135	341	131	187	189	147	350	134	200	203	156
1917.....	317	108	196	191	130	334	114	202	197	135	346	131	234	228	156
1918.....	1,707	546	667	638	569	433	138	204	195	153	666	213	331	316	239

¹ Annual average for 5-year period.

TABLE 14.—Number of deaths and relative mortality of certain specified diseases, contagious and otherwise, for the years mentioned below.

Year.	1 Aneurism.						2 Angina pectoris.						3 Apoplexy.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	4	3	7	1.8	3.2	2.2	18	4	22	8.3	4.3	7.1	177	91	268	81.3	97.1	86.8
1906-1910 ¹	6	7	13	2.5	7.2	3.8	15	4	19	6.2	4.1	5.6	216	111	327	90.0	114.8	97.8
1911-1915 ¹	7	8	15	2.7	8.0	4.2	20	5	25	7.8	5.1	7.1	273	140	413	106.9	142.2	116.7
1911.....	8	4	12	3.2	4.1	3.4	21	2	23	8.3	2.0	6.5	261	143	404	103.8	145.6	115.5
1912.....	8	9	17	3.1	9.1	4.8	19	8	27	7.5	8.1	7.6	265	134	399	104.2	135.8	113.1
1913.....	2	12	14	.8	12.2	4.0	15	5	20	5.9	5.1	5.6	231	134	385	98.3	136.5	108.9
1914.....	7	6	13	2.7	6.1	3.7	19	4	23	7.4	4.1	6.5	283	136	419	110.5	139.3	118.5
1915.....	9	9	18	3.5	9.1	5.0	25	5	30	9.6	5.1	8.4	306	151	457	118.1	152.8	127.7
1916.....	4	23	27	1.5	23.2	7.5	22	8	30	8.4	8.1	8.3	304	159	463	116.5	160.4	128.7
1917.....	8	12	20	2.7	11.7	5.1	34	1	35	11.6	.9	8.8	318	172	490	108.4	167.6	123.7
1918.....	8	6	14	2.6	5.7	3.4	22	5	27	7.0	4.8	6.5	368	171	539	117.6	163.5	129.1

Year.	4 Arteriosclerosis.						5 Bright's disease.						6 Cirrhosis of liver.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	29	6	35	13.3	6.4	11.2	233	127	360	107.1	135.5	115.6	27	7	34	12.4	7.5	10.9
1906-1910 ¹	71	13	84	29.5	13.4	24.9	283	159	442	117.8	164.5	131.2	33	10	43	13.7	10.3	12.8
1911-1915 ¹	98	22	120	38.4	22.3	33.9	347	197	544	135.8	200.1	153.7	34	8	42	13.3	8.0	11.9
1911.....	85	19	104	33.8	19.3	29.7	337	188	525	134.0	191.5	150.2	40	4	44	15.9	4.1	12.6
1912.....	82	23	105	32.2	23.3	29.7	322	182	504	126.5	184.5	142.8	33	6	39	13.0	6.1	11.0
1913.....	86	8	94	33.7	8.2	26.6	321	168	489	125.8	171.2	138.4	27	10	37	10.6	10.2	10.5
1914.....	116	27	143	45.3	27.7	40.4	363	225	588	141.7	229.0	166.2	30	11	41	11.7	11.3	11.6
1915.....	122	32	154	47.1	32.4	43.1	392	221	613	151.4	223.7	171.3	43	8	51	16.6	8.1	14.2
1916.....	153	26	179	58.6	26.2	49.7	381	297	588	146.1	208.8	163.3	28	6	34	10.7	6.1	9.4
1917.....	112	32	144	38.2	23.1	26.4	397	242	639	135.3	235.8	161.4	34	6	40	11.6	5.8	10.1
1918.....	170	25	195	54.3	23.9	46.7	378	246	624	129.8	235.2	149.5	23	5	28	7.4	4.8	6.7

Year.	7 Diabetes.						8 Diarrhea and enteritis (under 2 years).						9 Diarrhea and enteritis (2 years and over).					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	27	4	31	12.4	4.3	9.9	126	197	323	57.9	210.2	103.8	56	26	82	25.7	27.7	26.3
1906-1910 ¹	37	4	41	15.4	4.1	12.2	128	177	305	53.3	183.1	90.5	50	22	72	20.8	22.7	21.4
1911-1915 ¹	50	8	58	19.5	8.0	16.3	81	111	192	31.7	112.7	54.2	43	20	63	16.8	20.3	17.8
1911.....	46	4	50	18.3	4.1	14.3	124	133	257	49.3	135.5	73.5	50	20	70	19.9	20.4	20.0
1912.....	40	5	45	15.7	5.1	12.8	77	110	187	30.3	111.5	53.0	44	19	63	17.3	19.3	17.8
1913.....	46	13	59	18.0	13.3	16.7	85	123	208	33.3	125.4	58.9	45	23	68	17.6	23.4	19.2
1914.....	58	6	64	22.6	6.1	18.1	48	94	142	18.7	96.3	40.1	37	20	57	14.4	20.5	16.1
1915.....	61	11	72	23.6	11.1	20.1	71	96	167	27.4	97.1	46.7	38	20	58	14.7	20.2	16.2
1916.....	56	12	68	21.4	12.1	18.8	74	101	175	28.3	101.9	48.6	37	27	64	14.2	27.2	17.8
1917.....	50	15	65	17.0	14.6	16.4	105	122	227	35.8	118.9	57.3	46	22	68	15.7	21.4	17.2
1918.....	52	14	66	16.6	13.4	15.8	100	105	205	31.4	100.4	49.1	52	32	84	16.6	30.6	20.1

¹ Annual average for 5-year period.

TABLE 14.—*Number of deaths and relative mortality of certain specified diseases, contagious and otherwise, for the years mentioned below—Continued.*

Year.	10 Diseases of the heart.						11 Dysentery.						12 Epilepsy.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	277	216	493	127.3	230.5	158.4	13	10	23	6.0	10.7	7.4	14	10	24	6.4	10.7	7.7
1906-1910.....	332	236	568	138.3	244.1	168.6	7	9	16	2.9	9.3	4.7	13	9	22	5.4	9.3	6.5
1911-1915 ¹	491	277	738	180.5	281.3	208.5	4	3	7	1.6	3.0	2.0	10	11	21	3.9	11.1	5.9
1901.....	393	266	659	156.3	271.0	188.5	5	6	11	1.9	6.1	3.1	6	13	19	2.4	13.2	5.4
1902.....	474	312	786	186.4	316.2	222.7	5	4	9	2.0	4.1	2.5	10	13	23	3.9	13.1	6.5
1903.....	459	277	736	179.9	282.3	208.2	3	3	6	1.2	3.1	1.7	17	13	30	6.7	13.3	8.5
1904.....	430	227	657	167.9	232.6	185.8	4	1	5	1.6	1.0	1.4	10	10	20	3.9	10.3	5.6
1905.....	552	301	853	213.1	304.6	238.4	5	2	7	1.9	2.0	2.0	6	9	15	2.3	9.1	4.2
1906.....	488	228	716	187.1	230.0	198.8	3	3	6	1.1	3.0	1.7	12	6	18	4.6	6.1	5.0
1907.....	494	283	777	168.4	275.8	196.2	4	3	7	1.4	2.9	1.8	15	17	32	5.1	16.5	8.1
1908.....	533	276	809	170.3	264.0	193.8	2	3	5	0.6	2.8	1.2	8	7	15	2.6	6.7	3.6

Year.	13 Gastritis.						14 Grippe.						15 Insanity.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	44	24	68	21.2	25.6	21.8	51	38	89	23.4	49.5	28.6	27	8	35	12.4	8.5	11.2
1906-1910.....	41	32	73	17.1	33.1	21.7	52	44	96	21.6	45.5	28.5	25	11	36	10.4	11.4	10.7
1911-1915 ¹	25	29	54	19.8	29.5	15.3	40	31	71	15.7	31.5	20.1	41	22	63	16.1	12.2	17.8
1901.....	34	34	68	13.5	34.6	19.5	41	26	67	16.3	26.5	19.1	34	15	49	13.5	15.3	14.0
1902.....	31	31	62	12.1	31.9	17.5	28	34	62	11.0	34.4	17.5	35	12	48	14.1	12.1	13.6
1903.....	23	33	56	9.0	33.6	15.8	30	19	49	11.8	19.4	13.8	40	20	60	15.6	20.4	17.0
1904.....	25	23	48	9.8	23.6	13.5	34	31	65	13.2	31.8	18.2	58	29	87	22.6	29.7	24.6
1905.....	13	26	39	5.0	26.3	10.5	70	44	114	27.0	44.5	31.9	39	32	71	15.1	32.3	19.8
1906.....	14	20	34	5.4	22.2	9.4	71	41	112	27.2	41.4	31.1	52	25	77	19.9	25.2	21.4
1907.....	18	13	31	6.1	12.7	7.8	66	49	106	22.5	39.0	26.8	63	34	97	21.5	33.1	24.5
1908.....	12	15	27	3.8	14.3	6.5	1,577	451	2,028	504.1	431.3	485.7	66	25	91	21.1	23.9	21.8

Year.	16 Malarial fevers.						17 Malignant growths.						18 Pneumonia, all forms.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	12	11	23	5.5	11.7	7.4	166	52	218	76.3	55.5	70.0	219	288	507	100.6	307.3	162.9
1906-1910.....	5	6	11	2.1	6.2	3.2	212	64	276	88.3	66.2	81.9	246	304	550	102.5	314.0	163.2
1911-1915 ¹	2	1	3	.8	1.0	.8	253	80	339	101.4	81.2	95.8	292	285	547	102.6	289.5	154.6
1901.....	.....	.....	.....	.....	.....	.....	215	71	288	85.5	72.3	81.8	278	310	588	110.5	315.7	168.2
1902.....	2	2	4	.8	2.0	1.1	245	78	323	96.3	79.1	91.5	251	274	525	98.7	277.7	148.7
1903.....	5	3	8	2.0	3.1	2.3	278	73	351	109.0	74.0	99.0	207	277	484	81.1	282.2	127.0
1904.....	3	.....	3	1.2	.....	.8	259	85	344	101.1	86.9	97.8	242	226	468	94.4	231.5	132.3
1905.....	1	1	2	.4	1.0	.6	301	91	392	116.2	92.1	109.6	333	338	671	128.6	342.1	187.6
1906.....	2	1	3	.7	1.0	.8	294	93	387	112.7	93.8	107.5	305	299	604	116.9	301.6	167.7
1907.....	1	4	5	.3	3.9	1.3	345	75	420	117.6	72.9	106.1	330	306	636	112.5	298.3	160.7
1908.....	.....	.....	.....	.....	.....	.....	313	105	418	103.0	103.8	101.4	715	583	1,298	228.5	557.3	311.0

¹ Annual average for 5-year period.

TABLE 14.—*Number of deaths and relative mortality of certain specified diseases, contagious and otherwise, for the years mentioned below—Continued.*

Year.	19 Rheumatism, acute and chronic.						20 Rabies.						21 Softening of the brain.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	25	10	35	11.5	10.6	11.2	.....	.....	.....	.....	.....	.....	12	6	18	5.5	6.4	5.7
1906-1910 ¹	29	11	40	8.3	11.4	9.2	.....	.....	.....	.....	.....	.....	15	6	21	8.7	6.2	6.2
1911-1915 ¹	15	9	24	5.9	9.1	6.8	.....	.....	.....	.....	.....	.....	6	2	8	2.3	2.0	2.3
1911.....	17	8	25	6.7	8.1	7.1	.....	.....	.....	.....	.....	.....	10	1	11	3.9	1.0	3.1
1912.....	13	8	21	5.1	8.1	5.9	.....	1	1	.....	1.0	0.3	11	5	16	4.3	5.1	4.5
1913.....	13	10	23	5.1	10.2	6.5	.....	.....	.....	.....	.....	.....	3	.....	3	1.2	.....	.....
1914.....	22	11	33	8.6	11.2	9.2	.....	1	.....	1	0.4	.....	3	.....	3	.....	.....	.....
1915.....	13	6	19	5.0	6.1	5.3	.....	1	.....	1	0.4	.....	3	.....	3	.....	.....	.....
1916.....	13	5	18	5.0	5.0	5.0	.....	.....	.....	.....	.....	.....	2	.....	2	.....	.....	.....
1917.....	16	8	24	5.5	7.8	6.1	.....	.....	.....	.....	.....	.....	2	2	4	7.2	2.0	1.6
1918.....	21	3	24	6.7	2.8	5.7	.....	.....	.....	.....	.....	.....	4	3	7	1.3	2.9	1.7

Year.	22 Suicides.						23 Steam railroad accidents.						24 Street railroad accidents.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	46	5	51	21.1	5.3	16.4	18	6	24	8.3	6.4	7.7	6	2	8	2.8	2.1	2.6
1906-1910 ¹	62	9	71	25.8	9.3	21.1	18	7	25	7.5	7.2	7.4	11	4	15	4.6	4.1	4.4
1911-1915 ¹	71	10	81	27.8	10.2	22.9	7	1	8	2.7	1.0	2.3	12	3	15	4.7	3.0	4.2
1911.....	71	11	82	31.0	11.2	25.5	3	2	5	1.1	2.0	1.4	11	6	17	4.3	6.1	4.9
1912.....	8	9	17	3.1	9.2	25.1	13	2	15	5.1	2.0	4.2	16	3	19	6.2	3.0	5.3
1913.....	64	8	72	25.1	8.1	29.5	7	2	9	2.7	2.0	2.5	9	1	10	3.5	1.0	2.8
1914.....	5	8	13	2.2	7.7	18.9	5	2	7	2.0	2.1	2.0	13	4	17	5.1	4.1	4.8
1915.....	76	11	87	29.3	11.1	24.3	5	.....	5	1.9	.....	1.4	10	2	12	3.8	2.1	3.3
1916.....	77	11	88	29.4	11.0	24.5	5	3	8	1.9	3.1	2.2	6	3	9	2.3	3.0	2.5
1917.....	67	9	76	22.7	8.8	19.1	11	2	13	3.8	1.9	3.3	12	8	20	4.1	7.8	5.1
1918.....	68	9	77	21.6	8.6	18.5	9	.....	9	2.9	.....	2.2	14	6	20	4.5	5.7	4.8

¹ Annual average for 5-year period.TABLE 15.—*Deaths in the District of Columbia from cancers and other malignant tumors, by race and sex, for the years mentioned below.*

Calendar years.	White.		Colored.		Total.		
	M.	F.	M.	F.	M.	F.	All.
1901-1905 ¹	61	105	14	39	75	144	219
1906-1910 ¹	88	124	17	47	105	171	276
1911-1915 ¹	104	156	26	53	130	209	339
1911.....	83	132	25	46	108	178	286
1912.....	99	146	28	50	127	196	323
1913.....	114	164	23	50	137	214	351
1914.....	103	156	32	53	135	209	344
1915.....	121	189	23	68	144	248	392
1916.....	122	172	31	62	153	234	387
1917.....	143	202	27	48	170	250	420
1918.....	119	194	33	72	152	266	418

¹ Annual average for 5-year period.

TABLE 16.—Deaths in the District of Columbia from cancers and other malignant growths, arranged with reference to sex, race, marital relation, age, and organs involved, during the calendar year 1918.

Location.	Total.	White.		Colored.		Marital relation.			Age.										
		Male.	Female.	Male.	Female.	Married or widowed.	Single.	Unknown.	Under 5 years.	5 to 10 years.	10 to 19 years.	20 to 29 years.	30 to 39 years.	40 to 49 years.	50 to 59 years.	60 to 69 years.	70 to 79 years.	80 to 89 years.	90 years and over.
Head, neck, face, etc.:																			
Jaw.....	8	3	1	3	1	6	2								1	3	2	2	
Lip.....	2	1		1		2											2		
Tongue.....	5	3	1	1		5							1	1	2	1			
Face.....	8	5	2		1	6	2						1		2		4	1	
Nose.....	1	1				1											1		
Neck.....	2	1			1	2										1		1	
Larynx.....	2	1		1		2									2				
Parotid.....	1	1				1									1				
Throat.....	5	2	3			5									1		4		
Thyroid.....	1	1		1		1										1			
Trachea.....	1	1				1									1				
Pharynx.....	1	1				1									1				
Antrum.....	1		1			1										1			
Brain.....	2		2			1	1				1				1				
Digestive system:																			
Intestines.....	42	15	22	1	4	33	9					3	4	8	9	7	8	2	1
Liver.....	59	13	36	7	3	55	4					3	7	11	11	15	14	9	
Stomach.....	82	31	29	11	11	63	19					1	5	12	22	23	12	7	
Oesophagus.....	5	4		1		4	1							1	3	1			
Pancreas.....	12	5	3	1	3	11	1							4	2	3	2	1	
Female genitals:																			
Ovary.....	3		3			2	1									1			
Uterus.....	68		35		33	59	9					3	6	19	22	10	6	2	
Vagina.....	1		1			1										1			
Vulva.....	1		1				1										1		
Unclassified:																			
Abdomen.....	4	2	2			3	1								1	2	1		
Arm.....	3		3			3										2			
Bladder.....	19	15	3	1		17	2							3	8	4	2	1	
Chest.....	2		2			1	1						1			1			
Glands.....	1		1			1	1									1			
Groin.....	1				1	1									1				
Kidney.....	1			1			1			1									
Knee.....	1	1					1						1						
Lung.....	3	2	1			3							1	1		1			
Mediastinum.....	4	3	1			3	1					1	1	1		2			
Pelvis.....	4	1	3			3	1								3		1		
Penis.....	2	1		1		2										1	1		
Pleura.....	1		1			1								1					
Prostate.....	6	5		1		6							1			1	4		
Vertebra.....	1		1			1								1					
Visceral.....	1	1				1											1		
Breast.....	49		36	1	12	39	10						6	12	17	8	6		
Peritoneum.....	2				2	2								1	1				
Total.....	418	119	194	33	72	348	70			1	1	8	31	75	112	89	72	28	1

TABLE 17.—Anterior poliomyelitis, acute: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1912 to 1918, inclusive.

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1912-1915 ¹		2	2		2.0	0.6	5	2	7	2.0	2.0	2.0		100.0	28.6
1916.....	5	1	6	1.9	1.0	1.6	32	7	39	12.3	7.1	10.8	15.6	14.3	15.4
1917.....	2		2	.7		.5	4	2	6	1.4	1.9	1.5	50.0		33.3
1918.....							1	1	2	.3	.9	.5			

¹ Annual average for 4-year period.

TABLE 17a.—*Anterior poliomyelitis, acute: Reported cases and deaths, by race and months, during the calendar year 1918.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....						
February.....						
March.....						
April.....						
May.....						
June.....						
July.....						
August.....						
September.....	2				2	
October.....						
November.....						
December.....						
Total.....	2				2	

TABLE 17b.—*Anterior poliomyelitis, acute: Cases and deaths, with percentages of deaths to cases, at certain age periods, during calendar year 1918.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....									
1 to 4 years.....	1						1		
5 to 9 years.....									
10 to 19 years.....									
20 to 29 years.....	1						1		
30 to 39 years.....									
40 to 49 years.....									
50 to 59 years.....									
60 to 69 years.....									
70 years and over.....									
Total.....	2						2		

TABLE 18.—*Chicken pox: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1907 to 1918, inclusive.*

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1907-1910.....	0.25		0.25				478	103.2	581	196.8	106.3	171.0	0.05		0.4
1911-1915 ¹							726	174.0	900	284.5	177.0	254.6			
1916.....							918	221.0	1,139	331.9	222.9	316.4			
1917.....							1,070	180.0	1,250	361.7	175.4	315.7			
1918.....							650	78.0	728	207.8	74.5	174.4			

¹ Annual average for 5-year period.

TABLE 18a.—*Chicken pox: Reported cases and deaths, by race and months, during the calendar year 1918.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	219	.....	22	.....	241	.....
February.....	139	.....	12	.....	151	.....
March.....	99	.....	6	.....	105	.....
April.....	42	.....	10	.....	52	.....
May.....	47	.....	8	.....	55	.....
June.....	23	.....	8	.....	31	.....
July.....	24	.....	1	.....	25	.....
August.....	3	.....	3	.....	6	.....
September.....	7	.....	3	.....	10	.....
October.....	16	.....	1	.....	17	.....
November.....	11	.....	1	.....	12	.....
December.....	20	.....	3	.....	23	.....
Total.....	650	.....	78	.....	728	.....

TABLE 18b.—*Chicken pox: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1918.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	27	.....	.....	5	.....	.....	32	.....	.....
1 to 4 years.....	165	.....	.....	28	.....	.....	193	.....	.....
5 to 9 years.....	298	.....	.....	24	.....	.....	322	.....	.....
10 to 19 years.....	82	.....	.....	11	.....	.....	93	.....	.....
20 to 29 years.....	50	.....	.....	7	.....	.....	57	.....	.....
30 to 39 years.....	24	.....	.....	3	.....	.....	27	.....	.....
40 to 49 years.....	3	.....	.....	.....	.....	.....	3	.....	.....
50 to 59 years.....	1	.....	.....	.....	.....	.....	1	.....	.....
60 to 69 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 years and over.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	650	.....	.....	78	.....	.....	728	.....	.....

TABLE 19.—*Diphtheria: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1896 to 1918, inclusive.*

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	37	17	54	17.0	18.0	17.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1905-1910 ¹	24	8	32	10.0	8.0	10.0	391	61	452	166.2	61.2	133.5	6.1	13.1	7.1
1911-1915 ¹	20	4	24	7.8	4.1	6.8	402	105	507	157.5	106.8	140.6	4.8	3.8	4.7
1916.....	26	7	33	9.9	7.1	9.2	484	163	647	185.5	164.4	179.7	5.4	4.3	5.1
1917.....	28	9	37	9.5	8.8	9.4	942	188	1,130	321.1	183.2	285.4	3.0	4.8	3.3
1918.....	37	2	39	11.8	1.9	9.3	445	72	517	142.3	68.8	123.9	8.3	2.8	7.5

¹ Annual average for 5-year period.

TABLE 19a.—*Diphtheria: Reported cases and deaths, by race and months, during the calendar year 1918.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	53	4	4	.....	57	4
February.....	34	4	3	.....	37	4
March.....	46	1	3	.....	49	1
April.....	53	.....	2	.....	55	.....
May.....	61	4	11	.....	72	4
June.....	28	4	16	.....	44	4
July.....	23	1	.....	.....	23	1
August.....	10	1	3	.....	13	.....
September.....	19	.....	2	.....	21	.....
October.....	25	3	6	.....	31	3
November.....	39	4	9	.....	48	4
December.....	54	11	13	2	67	13
Total.....	445	37	72	2	517	39

TABLE 19b.—*Diphtheria: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1918.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.
Under 1 year.....	2	.....	.....	.....	.....	.....	2	.....	.....
1 to 4 years.....	72	22	30.5	8	1	12.5	80	23	28.9
5 to 9 years.....	124	9	7.2	27	.....	.....	151	9	5.7
10 to 19 years.....	112	5	4.5	29	1	3.4	141	6	4.2
20 to 29 years.....	105	1	.9	7	.....	.....	112	1	.9
30 to 39 years.....	23	.....	.....	1	.....	.....	24	.....	.....
40 to 49 years.....	6	.....	.....	.....	.....	.....	6	.....	.....
50 to 59 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60 to 69 years.....	1	.....	.....	.....	.....	.....	1	.....	.....
70 years and over.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	445	37	8.3	72	2	2.8	517	39	7.5

TABLE 20.—*Measles: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1918, inclusive.*

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	10	5	15	5.0	5.0	5.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1906-1910 ¹	10	5	15	4.0	5.0	4.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1911-1915 ¹	8	3	11	3.1	3.1	3.1	549	2,737	857.5	558.6	774.4	.....	0.4	0.5	0.4
1916.....	4	2	6	1.5	2.0	1.7	2,376	266	2,642	910.9	268.3	733.9	.2	.8	.2
1917.....	12	2	14	4.1	2.0	3.5	3,129	678	3,807	1,066.7	60.7	961.5	.4	.3	.4
1918.....	41	7	48	13.1	6.7	11.5	6,304	695	6,999	2,015.3	661.5	1,676.7	0.6	1.0	.07

¹ Annual average for 5-year period.

TABLE 20a.—*Measles: Reported cases and deaths, by race and by months, during the calendar year 1918.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	511	4	64	1	575	5
February.....	966	10	118	1	1,084	11
March.....	1,952	4	136	3	2,088	7
April.....	1,877	13	146	.....	2,023	13
May.....	741	8	121	2	865	10
June.....	152	1	62	.....	214	1
July.....	52	1	27	.....	79	1
August.....	11	.....	8	.....	22	.....
September.....	10	.....	6	.....	16	.....
October.....	10	.....	2	.....	12	.....
November.....	11	.....	.....	.....	11	.....
December.....	8	.....	2	.....	10	.....
Total.....	6,304	41	695	7	6,999	48

TABLE 20b.—*Measles: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1918.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.
Under one year.....	153	2	1.30	10	.....	.....	163	2	1.20
1 to 4 years.....	1,628	17	1.04	174	3	1.72	1,802	20	1.12
5 to 9 years.....	2,435	3	.12	310	3	.96	2,745	6	.21
10 to 19 years.....	971	5	.51	132	.....	.....	1,103	5	.45
20 to 29 years.....	893	13	1.45	46	.....	.....	939	13	1.38
30 to 39 years.....	186	1	.53	20	1	5.00	206	2	.97
40 to 49 years.....	26	.....	.....	2	.....	.....	28	.....	.....
50 to 59 years.....	9	.....	.....	1	.....	.....	10	.....	.....
60 to 69 years.....	3	.....	.....	.....	.....	.....	3	.....	.....
70 years and over.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	6,304	41	.65	695	7	1.00	6,999	48	.68

TABLE 21.—*Meningitis, epidemic cerebrospinal: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1918, inclusive.*

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	6	4	10	2.8	4.3	3.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
1906-1910 ¹	9	7	16	3.7	7.2	4.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
1911-1915 ¹	3	1	4	1.2	1.0	1.1	4	2	6	1.6	2.0	1.7	75.0	50.0	66.6
1916.....	2	2	4	.8	2.0	1.1	4	2	6	1.5	2.0	1.7	50.0	100.0	66.6
1917.....	10	7	17	3.4	6.8	4.3	20	13	33	6.5	13.6	8.3	50.0	53.8	51.5
1918.....	20	8	28	6.4	7.2	6.7	92	26	118	29.4	24.8	28.2	21.7	3.1	23.7

¹ Annual average for 5-year period.

TABLE 21a.—*Meningitis, epidemic cerebrospinal: Reported cases and deaths, by race and by months, during the calendar year 1918.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	34	4	3	.....	37	4
February.....	22	6	9	1	31	7
March.....	5	2	6	2	11	4
April.....	8	3	0	3	8	6
May.....	10	1	6	1	16	2
June.....	4	1	1	1	5	2
July.....	1	.....	.....	.....	1	.....
August.....	.....	.....	.....	.....	.....	.....
September.....	1	.....	.....	.....	1	.....
October.....	4	2	.....	.....	4	2
November.....	3	1	1	.....	4	1
December.....	.....	.....	.....	.....	.....	.....
Total.....	92	20	26	8	118	28

TABLE 21b.—*Meningitis, epidemic cerebrospinal: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1918.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	2	2	100.0	1	.....	.....	3	2	66.6
1 to 4 years.....	6	4	66.6	1	1	100.0	7	5	71.4
5 to 9 years.....	9	3	33.3	6	1	16.6	15	4	26.6
10 to 19 years.....	17	3	17.6	8	3	37.5	25	6	24.0
20 to 29 years.....	44	5	11.3	6	3	50.0	50	8	16.0
30 to 39 years.....	8	1	12.5	3	.....	.....	11	1	9.1
40 to 49 years.....	4	.....	.....	1	.....	.....	5	.....	.....
50 to 59 years.....	2	2	100.0	.....	.....	.....	2	2	100.0
60 to 69 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 years and over.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	92	20	21.7	26	8	30.7	118	28	23.7

TABLE 22.—*Pellagra: Deaths and death rates, cases and case rates, per 100,000 population and percentage of deaths to cases, according to race, from 1913 to 1918, inclusive.*

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1913-1915 ¹	2	9	11	.8	9.2	3.1	4	12	16	1.6	12.2	4.5	50.0	75.0	68.8
1916.....	8	1	9	3.1	1.0	2.5	11	5	16	4.2	5.0	4.4	72.8	20.0	56.3
1917.....	5	9	14	1.7	8.7	3.5	9	10	19	3.1	9.7	4.8	55.5	90.0	73.7
1918.....	5	4	9	1.6	3.8	2.1	9	5	14	2.9	4.8	3.4	55.6	80.0	64.3

¹ Annual average for 5-year period.

TABLE 22a.—*Pellagra: Reported cases and deaths, by race and by months, during the calendar year 1918.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....						
February.....		1				1
March.....	2				2	
April.....						
May.....	1	1			1	1
June.....	4	1	1	1	5	2
July.....		1	1	1	1	2
August.....	1	1	1	1	2	2
September.....			1		1	
October.....	1				1	
November.....			1	1	1	1
December.....						
Total.....	9	5	5	4	14	9

TABLE 22b.—*Pellagra: Cases and deaths, with percentage of deaths to cases, at certain age periods, during calendar year 1918.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....									
1 to 4 years.....									
5 to 9 years.....									
10 to 19 years.....									
20 to 29 years.....	1			1	1	100.0	2	1	50.0
30 to 39 years.....	2	1	50.0	1	1	100.0	3	2	66.6
40 to 49 years.....	2	1	50.0	1			3	1	33.3
50 to 59 years.....	1	1	100.0	1	1	100.0	2	2	100.0
60 to 69 years.....	3	2	66.6	1	1	100.0	4	3	75.0
70 years and over.....									
Total.....	9	5	55.6	5	4	80.0	14	9	64.3

TABLE 23.—*Scarlet fever: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1896 to 1918, inclusive.*

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	7	1.0	8	3.0	1.0	3.0									
1906-1910 ¹	9	2.0	11	4.0	2.0	3.0	480	46	526	199.5	48.0	154.9	1.9	4.3	2.1
1911-1915 ¹	6	.4	6	2.3	.4	1.7	402	36	438	157.5	36.6	123.9	1.5	1.1	1.4
1916.....	5	1.0	6	1.9	1.0	1.6	474	56	530	181.7	56.5	147.2	1.1	1.8	1.1
1917.....	8		8	2.7		2.0	510	44	554	184.1	42.8	147.5	1.5		1.4
1918.....	16		16	5.1		3.8	769	114	883	245.8	109.0	211.5	2.1		1.8

¹ Annual average for 5-year period.

TABLE 23a.—Scarlet fever: Reported cases and deaths, by race and by months, during the calendar year 1918.

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	150	3	58	.....	208	3
February.....	130	.....	35	.....	165	.....
March.....	152	5	9	.....	161	5
April.....	129	5	2	.....	131	5
May.....	89	1	2	.....	91	1
June.....	27	.....	5	.....	32	.....
July.....	16	.....	.....	.....	16	.....
August.....	11	1	1	.....	12	1
September.....	16	.....	.....	.....	16	.....
October.....	17	1	.....	.....	17	1
November.....	11	.....	1	.....	12	.....
December.....	22	.....	1	.....	23	.....
Total.....	769	16	114	.....	883	16

TABLE 23b.—Scarlet fever: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1918.

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	5	.....	.....	.....	.....	.....	5	.....	.....
1 to 4 years.....	88	5	5.6	6	.....	.....	94	5	5.3
5 to 9 years.....	173	4	2.3	8	.....	.....	181	4	2.2
10 to 19 years.....	238	1	.4	92	.....	.....	330	1	.3
20 to 29 years.....	221	5	2.2	8	.....	.....	229	5	2.1
30 to 39 years.....	39	1	2.5	.....	.....	.....	39	1	2.5
40 to 49 years.....	5	.....	.....	.....	.....	.....	5	.....	.....
50 to 59 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60 to 69 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 years and over.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	769	16	2.1	114	.....	.....	883	16	1.8

TABLE 24.—Smallpox: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1918, inclusive.

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	1.0	2.0	3.0	0.5	2.1	1.0	.....	.....	.....	11.1	54.6	24.1	.....	.....	.....
1906-1910 ¹.....	.4	.4	.8	.2	.4	.2	28	53	81	7.4	51.9	19.8	.....	.....	.....
1911-1915 ¹.....	.....	.....	.....	.....	.....	.....	19	51	70	1.2	1.0	1.1	.....	.....	.....
1916.....	.....	.....	.....	.....	.....	.....	3	1	4	2.3	3.9	2.8	.....	.....	.....
1917.....	.....	.....	.....	.....	.....	.....	7	4	11	.....	.....	.....	.....	.....	.....
1918.....	.....	.....	.....	.....	.....	.....	37	11	48	11.8	10.5	11.5	.....	.....	.....

¹ Average for 5-year period.

TABLE 24a.—*Smallpox: Reported cases and deaths, by race and by months, during the calendar year 1918.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	7				7	
February.....			2		2	
March.....	1				1	
April.....	5				5	
May.....	9		2		11	
June.....	3		1		4	
July.....	5		1		6	
August.....	3		2		5	
September.....						
October.....			3		3	
November.....	4				4	
December.....						
Total.....	37		11		48	

TABLE 24b.—*Smallpox: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1918.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....									
1 to 4 years.....	4						4		
5 to 9 years.....									
10 to 19 years.....	5			1			6		
20 to 29 years.....	12			3			15		
30 to 39 years.....	7			3			10		
40 to 49 years.....	7			3			10		
50 to 59 years.....	1						1		
60 to 69 years.....	1						1		
70 years and over.....				1			1		
Total.....	37			11			48		

TABLE 25.—*Tuberculosis, reportable forms: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1908 to 1918, inclusive.*

Year.	Deaths.			Death rate per 100,000.			Cases reported.			Case rate per 100,000 of population.			Percentage of fatal cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1908-1910.....	277	392	669	112.8	402.4	195.1	570	637	1,207	231.7	654.1	351.5	48.6	61.6	55.5
1911-1915 ¹	318	424	742	124.6	435.5	211.3	537	587	1,154	222.2	537.3	326.5	56.1	73.1	64.7
1916.....	297	397	694	113.9	430.4	192.8	527	534	1,061	202.0	538.6	294.7	56.4	74.3	65.4
1917.....	291	342	633	99.2	333.2	159.9	549	457	1,006	187.2	445.3	254.1	53.0	74.8	62.9
1918.....	314	376	690	216.7	359.5	165.3	678	432	1,140	216.7	441.7	273.1	46.3	81.4	60.5

¹ Average for 5-year period.

TABLE 25a.—*Tuberculosis, reportable forms: Reported cases and deaths, by race and by months, during the calendar year 1918.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	62	33	48	31	110	64
February.....	54	18	35	29	89	47
March.....	50	39	32	41	82	80
April.....	71	22	44	36	115	58
May.....	69	22	54	43	123	65
June.....	57	21	35	30	92	51
July.....	72	26	40	32	112	58
August.....	50	27	40	35	90	62
September.....	48	22	35	20	83	42
October.....	43	40	33	30	76	70
November.....	52	27	28	17	80	44
December.....	50	17	38	32	88	49
Total.....	678	314	462	376	1,140	690

TABLE 25b.—*Tuberculosis, reportable forms: Cases and deaths, with percentage of deaths to cases.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	1	.....	.....	1	1	100.0	2	1	50.0
1 to 4 years.....	4	2	50.0	9	8	88.9	13	10	76.1
5 to 9 years.....	6	2	33.3	6	5	83.3	12	7	58.3
10 to 19 years.....	39	19	48.7	84	69	82.1	123	88	71.5
20 to 29 years.....	272	94	34.6	141	109	77.3	413	203	49.1
30 to 39 years.....	163	81	49.7	126	98	77.7	289	179	61.9
40 to 49 years.....	102	44	43.1	56	52	92.8	158	96	60.7
50 to 59 years.....	55	38	67.8	22	21	95.5	78	59	75.6
60 to 69 years.....	21	20	95.2	10	10	100.0	31	30	96.8
70 years and over...	14	14	100.0	7	3	42.8	21	17	80.9
Total.....	678	314	46.3	462	376	81.4	1,140	690	60.5

TABLE 26.—*Tuberculosis, pulmonary: Reported cases and deaths occurring in the District of Columbia from 1901 to 1918, inclusive, arranged by race and by months and years.*

Year.	January.				February.				March.				April.			
	Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
1901-1905 ¹.....	.....	.....	33	43	.....	.....	31	41	.....	.....	35	38	.....	.....	36	42
1906-1910 ¹.....	.....	.....	28	40	.....	.....	32	35	.....	.....	32	45	.....	.....	30	44
1911-1915 ¹	47	50	25	33	46	42	24	33	50	58	28	40	55	50	29	33
1916.....	33	43	17	20	37	46	31	39	50	40	28	30	53	42	28	37
1917.....	54	34	17	31	41	31	25	29	38	45	31	33	42	44	29	34
1918.....	60	47	30	29	54	35	18	27	50	32	41	36	71	41	24	32

Year.	May.				June.				July.				August.			
	Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
1901-1905 ¹.....	.....	.....	29	37	.....	.....	31	36	.....	.....	23	35	.....	.....	27	37
1906-1910 ¹.....	.....	.....	25	36	.....	.....	24	29	.....	.....	21	34	.....	.....	25	28
1911-1915 ¹	48	53	27	36	43	48	25	32	52	51	27	36	37	39	22	29
1916.....	50	56	27	38	40	37	22	26	40	53	21	32	44	47	14	38
1917.....	37	36	24	18	43	42	15	19	52	42	17	35	55	39	26	20
1918.....	69	53	26	37	57	34	20	31	72	37	19	31	50	38	29	31

Year.	September.				October.				November.				December.			
	Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
1901-1905 ¹.....	.....	.....	25	29	.....	.....	27	32	.....	.....	30	32	.....	.....	27	36
1906-1910 ¹.....	.....	.....	24	35	.....	.....	25	35	.....	.....	19	35	.....	.....	29	38
1911-1915 ¹	40	44	20	26	40	38	20	31	40	38	25	28	38	35	24	29
1916.....	45	31	21	28	39	36	21	32	42	31	21	34	34	32	24	17
1917.....	39	39	20	21	58	33	25	32	55	32	23	22	34	35	22	26
1918.....	48	35	21	22	43	33	29	29	51	28	24	17	50	38	20	24

SUMMARY.

Year.	Cases.		Deaths.		Total.	
	White.	Colored.	White.	Colored.	Cases.	Deaths.
1901-1905 ¹.....	.....	.....	354	438	.....	792
1906-1910 ¹.....	.....	.....	314	434	.....	748
1911-1915 ¹	537	549	299	386	1,086	685
1916.....	507	275	494	371	1,001	646
1917.....	548	452	274	320	1,000	594
1918.....	675	451	301	346	1,126	647

¹ Annual average for 5-year period.

TABLE 27.—Typhoid fever: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1918, inclusive.

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	99	64	163	45.0	68.0	52.0	669	237	897	274.3	244.9	265.9	11.0	19.6	13.0
1906-1910 ¹	73	46	119	39.0	48.0	35.0	669	237	897	134.4	139.4	135.0	9.6	19.0	12.3
1911-1915 ¹	33	26	59	12.9	26.4	16.7	343	137	480	81.3	96.8	85.5	11.8	21.9	14.9
1916.....	25	21	46	9.6	21.2	12.7	212	96	308	73.6	118.0	85.0	7.0	27.9	14.5
1917.....	15	34	49	5.1	33.1	12.4	216	122	338	43.5	77.4	52.0	15.4	33.3	22.1
1918.....	21	27	48	6.7	25.8	11.5	136	81	217						

¹Annual average for 5-year period.

TABLE 27a.—Typhoid fever: Reported cases and deaths, by race and by months, during the calendar year 1918.

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	9	4	1	1	10	4
February.....	5	1	1	1	6	2
March.....	4	1	1	1	5	1
April.....	4	2	2	1	6	1
May.....	7	2	7	7	14	9
June.....	11	2	10	6	21	8
July.....	24	2	22	10	46	12
August.....	25	3	14	2	39	5
September.....	25	4	18	3	43	7
October.....	11	1	8	2	19	3
November.....	4	1	1	1	5	2
December.....	7	3	3	2	10	5
Total.....	136	21	81	27	217	48

TABLE 27b.—Typhoid fever: Cases and deaths, with percentage of deaths to cases at certain age periods, during the calendar year 1918.

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Per cent- age of deaths to cases.
Under 1 year.....	5	1	20.0	4	2	50.0	9	2	22.2
1 to 4 years.....	18	1	5.6	10	1	10.0	28	2	7.1
5 to 9 years.....	31	2	6.4	39	7	23.3	61	9	14.7
10 to 19 years.....	42	7	16.6	20	11	55.0	62	18	29.0
20 to 29 years.....	30	7	23.3	13	5	38.4	43	12	27.9
30 to 39 years.....	8	3	37.5	4	1	25.0	12	3	25.0
40 to 49 years.....	1	1	100.0	1	1	100.0	1	1	100.0
50 to 59 years.....	1	1	100.0	1	1	100.0	1	1	100.0
60 to 69 years.....	1	1	100.0	1	1	100.0	1	1	100.0
70 years and over.....	1	1	100.0	1	1	100.0	1	1	100.0
Total.....	136	21	15.4	81	27	33.3	217	48	22.1

¹This case reported in 1917.

TABLE 28.—*Whooping cough: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1918, inclusive.*

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	27	50	77	12.0	53.0	25.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1906-1910 ¹	15	23	38	6.0	24.0	11.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1911-1915 ¹	10	19	29	3.9	19.3	8.2	525	197	722	205.8	200.4	204.3	1.9	9.6	4.0
1916.....	17	24	41	6.5	24.2	11.4	1,612	612	2,224	617.9	617.3	617.8	1.1	3.9	1.8
1917.....	8	10	18	2.8	9.7	4.6	885	128	1,013	301.7	124.7	255.8	.9	7.8	1.7
1918.....	18	25	43	5.8	23.9	10.3	1,450	299	1,749	463.5	285.9	419.0	1.2	8.4	2.5

¹ Annual average for 5-year period.TABLE 28a.—*Whooping cough: Reported cases and deaths, by race and by months, during the calendar year 1918.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	14	.....	9	.....	23	.....
February.....	32	2	14	.....	46	2
March.....	47	1	25	1	72	2
April.....	140	1	30	2	170	3
May.....	176	.....	30	3	206	3
June.....	283	4	19	1	302	5
July.....	385	4	63	4	448	8
August.....	247	2	37	2	284	4
September.....	62	2	20	1	82	3
October.....	25	2	27	7	52	9
November.....	16	.....	4	2	20	2
December.....	23	.....	21	2	44	2
Total.....	1,450	18	299	25	1,749	43

TABLE 28b.—*Whooping cough: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1918.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	102	11	10.8	53	10	18.8	155	21	13.5
1 to 4 years.....	676	7	1.0	146	14	9.9	822	21	2.6
5 to 9 years.....	594	.....	.....	93	.....	.....	687	.....	.....
10 to 19 years.....	55	.....	.....	4	1	25.0	59	1	1.7
20 to 29 years.....	4	.....	.....	3	.....	.....	7	.....	.....
30 to 39 years.....	6	.....	.....	.....	.....	.....	6	.....	.....
40 to 49 years.....	10	.....	.....	.....	.....	.....	10	.....	.....
50 to 59 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60 to 69 years.....	2	.....	.....	.....	.....	.....	2	.....	.....
70 years and over.....	1	.....	.....	.....	.....	.....	1	.....	.....
Total.....	1,450	18	1.2	299	25	8.4	1,749	43	2.5

TABLE 29.—*Population and deaths, by race, in the District of Columbia from pneumonia, bronchitis, and congestion of the lungs, and from said diseases taken together, and showing also the death rate per 100,000 of each of such classes of deaths.*

Calendar year.	Population.		Pneumonia.				Bronchitis.			
			White.		Colored.		White.		Colored.	
	White.	Colored.	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.
1901-1905 ¹	217,606	93,719	219	101	288	307	55	25	80	85
1906-1910 ¹	240,244	96,696	246	102	304	314	61	25	67	69
1911-1915 ¹	255,360	98,453	262	103	285	289	51	20	42	43
1916.....	260,854	99,143	305	117	299	302	39	15	38	38
1917.....	293,329	102,618	330	113	306	298	40	14	19	18
1918.....	312,806	104,599	715	229	583	557	54	17	38	36

Calendar year.	Population.		Congestion of lungs.				Pneumonia, bronchitis, and congestion of lungs.			
			White.		Colored.		White.		Colored.	
	White.	Colored.	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.
1901-1905 ¹	217,606	93,719	33	15	25	27	307	141	393	419
1906-1910 ¹	240,244	96,696	27	11	13	13	334	139	384	397
1911-1915 ¹	255,360	98,453	13	5	7	7	326	128	334	339
1916.....	260,854	99,143	5	2	4	4	349	134	341	344
1917.....	293,329	102,618	11	4	2	2	381	130	327	319
1918.....	312,806	104,599	7	2	3	3	776	248	624	596

¹ Annual average for 5-year period.TABLE 30.—*Births (stillbirths excluded) reported during the calendar year 1918, arranged by months, by race, and sex, by number of children born, by legitimacy, and according to professional attendance at time of birth.*

Months.	Total.	White.		Colored.		Twins.		Illegitimate.		Attended by physicians.		Attended by midwives.	
		Male.	Female.	Male.	Female.	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
January.....	659	231	227	110	91	6	.....	8	36	433	189	25	12
February.....	627	233	227	83	84	14	4	6	27	441	156	19	11
March.....	694	285	246	90	73	8	6	8	25	513	149	18	14
April.....	647	230	242	87	88	10	17	14	30	455	159	17	16
May.....	652	238	272	67	75	10	.....	9	30	493	128	17	14
June.....	681	251	236	103	91	16	10	5	37	472	176	15	18
July.....	744	304	251	94	95	12	6	12	28	534	172	21	17
August.....	807	288	290	113	116	8	10	2	41	553	208	25	21
September.....	705	278	250	80	97	10	8	4	10	498	152	30	25
October.....	727	275	259	96	97	10	4	3	25	514	157	20	36
November.....	652	226	267	89	70	4	4	1	29	475	140	18	19
December.....	626	225	232	86	83	4	.....	7	26	444	147	13	22
Total.....	8,221	3,064	2,999	1,098	1,060	112	59	85	344	5,825	1,933	238	225

¹ 1 set of triplets.

TABLE 31.—*Reported births (stillbirths excluded) in institutions in the District of Columbia by race and place of birth, during the calendar year 1918.*

Hospital.	White.	Colored.	Total.
Blue Plains.....	2	3	5
Casualty.....	26	49	75
Columbia.....	823	224	1,047
Emergency.....	21	.....	21
Florence Crittenton.....	32	.....	32
Freedmens.....	1	348	349
Garfield.....	244	101	345
Georgetown.....	414	18	432
George Washington.....	219	1	220
Homeopathic.....	103	3	106
Providence.....	382	.....	382
Sibley.....	850	1	851
St. Ann's.....	10	.....	10
St. Elizabeth's.....	3	.....	3
Walter Reed.....	3	.....	3
Washington Asylum.....	6	25	31
Washington Sanatorium.....	15	1	16
Total.....	3,154	774	3,928

TABLE 32.—*Births (stillbirths excluded) reported in the District of Columbia, arranged by race and by legitimacy and illegitimacy, and number of multiple births for the years mentioned.*

Calendar years.	Legitimate.			Illegitimate.			Total.			Twins.			Triplets.		
	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	All.	White.	Colored.	Total.	White.	Colored.	Total.
1896-1900 ¹	2,712	1,380	4,092	86	491	577	2,798	1,871	4,669	71	42	113	1	.....	1
1901-1905 ¹	3,335	1,499	4,834	95	481	576	3,430	1,980	5,409	72	52	124	1	2	3
1906-1910 ¹	4,533	1,786	6,319	99	482	581	4,632	2,268	6,900	84	46	130	1	1	2
1911-1915 ¹	4,690	1,769	6,459	104	464	568	4,794	2,234	7,028	78	52	130	1	1	2
1916.....	4,961	1,813	6,774	81	403	484	5,042	2,216	7,258	83	45	128	.....	.....	.....
1917.....	5,171	1,809	6,980	120	419	539	5,291	2,228	7,519	81	54	138	1	.....	1
1918.....	5,978	1,814	7,792	85	344	429	6,063	2,158	8,221	112	56	168	.....	1	1

¹ Annual average for 5-year period.

TABLE 33.—Stillbirths reported in the District of Columbia during the calendar year 1918, by race and sex, and certain data relative thereto.

	White.			Colored.			Unknown race.			Total.
	Male.	Female.	Sex unknown.	Male.	Female.	Sex unknown.	Male.	Female.	Sex unknown.	
Legitimacy:										
Legitimate.....	140	88	6	98	74	3				409
Illegitimate.....	4	4		34	24	1				67
Unknown.....					1		14	5	16	36
Total.....	144	92	6	132	99	4	14	5	16	512
Period, uterogestation:										
4 months and under.....	10	7	1	4	8	1	6	1	14	52
5 months.....	8	4	2	6	6			1		27
6 months.....	14	11	2	16	10	1	4			58
7 months.....	27	8	1	21	21	1	2		2	83
8 months.....	21	22		26	22	1	2	2		96
9 months.....	32	24		44	25			1		126
10 months.....	32	16		15	7					70
Total.....	144	92	6	132	99	4	14	5	16	512
Reported by physicians.....	138	87	5	121	93	4				448
Reported by coroner.....	6	5	1	11	6		14	5	16	64
Total.....	144	92	6	132	99	4	14	5	16	512
Causes:										
Difficult or prolonged labor.....	4			2						6
Placenta previa.....	2	1								3
Contracted or deformed pelvis.....	4	3								7
Dystocia.....	1	1		2						4
Malpresentation.....	8	3		3						14
Death of mother.....	1									1
Compressed cord.....	7	9		6	1					23
Ateliotasis.....	1	1								3
Knotted cord.....	1			2	1					4
Eclampsia.....	4	1		1						6
Hydrocephalus.....	4	1		1	1					7
Malformation.....	1	1								2
Maternal illness.....	30	10		5	1					46
Cord about neck.....	1	1								2
Intra-ranial pressure.....	1					1				1
Age of mother.....	1									1
Premature separation of placenta.....	1	1		1						3
Caesarian section (post mortem of mother).....	1	1								2
Diseased cord.....	1									1
Prematurity.....	3	2	1	2	3					11
Maternal injury.....	1	3		3	3					10
Tetanic contraction of uterus.....	2									2
Forceps.....		1								1
Monstrosity.....		5		1						6
Twins.....		1								1
Rupture of uterus.....		1								1
Asphyxia neonatorum.....					3					3
Syphilis.....				6	13	1				20
Overwork of mother.....				2	2					4
Unknown.....	64	45	5	94	71	2	14	5	16	316
Total.....	144	92	6	132	99	4	14	5	16	512

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